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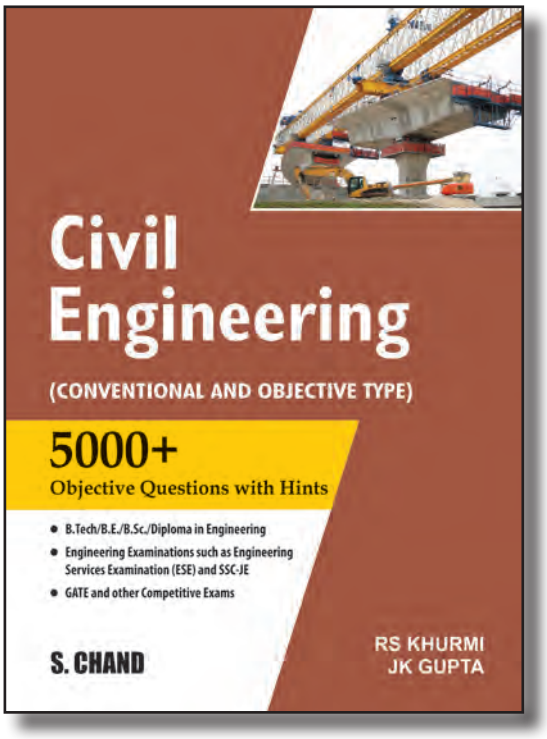
# CIVIL & MECHANICAL ENGINEERING

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## Engineering & Technology


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# Civil Engineering (Conventional and Objective Type)

RS Khurmi & JK Gupta

## About the Book

For more than 30 years "Civil Engineering: Conventional and Objective Type" continues to be a comprehensive text aided by a collection of multiple-choice questions specifically for aspirants of various competitive examinations such as GATE, UPSC, IAS, IES and SSC-JE among others as well as students who are preparing for university examinations.

The new edition contains 17 chapters where every important concept of Civil Engineering is fairly treated. On the other hand, the questions provided in this book have been selected from various potent resources to provide the students with an idea of how the questions are set and what type of questions to expect on the final day

## Salient Features

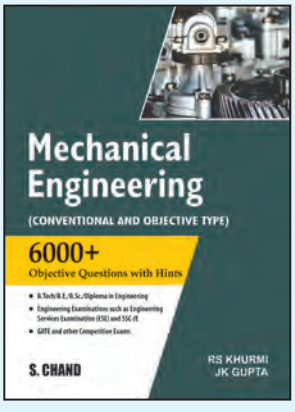
- Divided in 17 chapters containing more than 5000+ questions with hints provide rich practice
- Over 1000 graphs and figures providing ample support to the theory explained

**ISBN: 9789355014443 | Price: ₹ 750 | Pages: 616 | Size: 8" X 10.5" (Paperback)**

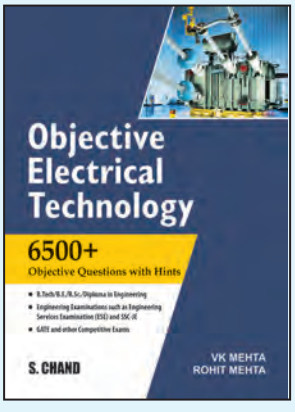
## Contents

1. Engineering Mechanics
2. Strength of Materials
3. Hydraulics and Fluid Mechanics
4. Hydraulic Machines
5. Surveying
6. Building Materials
7. Irrigation Engineering
8. Environmental Engineering (Public Health Engineering)
9. Highway Engineering (Transportation Engineering-I)
10. Railway Engineering (Transportation Engineering-II)
11. Soil Mechanics and Foundations
12. Building Construction
13. Concrete Technology
14. Reinforced Cement Concrete Structures
15. Steel Structures Design
16. Construction Management
17. Engineering Geology

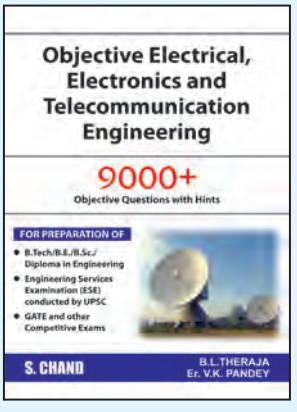
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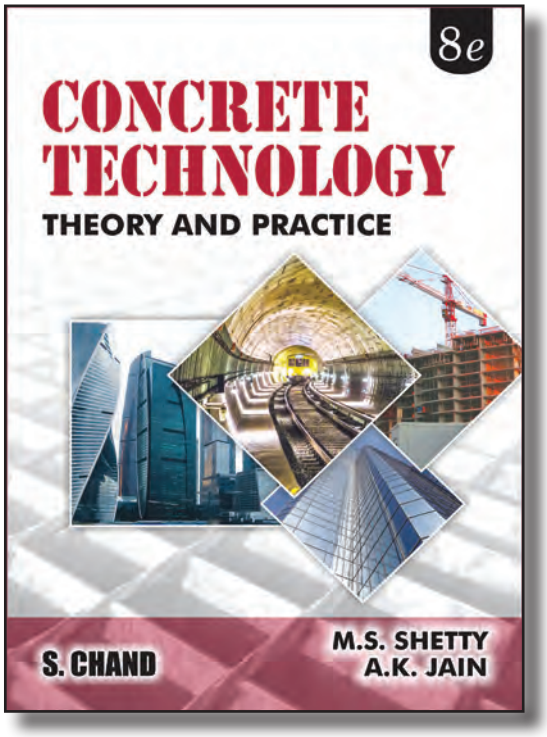



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ISBN: 9788121925716 ₹ 795

LOW PRICED STUDENTS' PAPERBACK EDITION




# Concrete Technology Theory and Practice, 8e (LPSPE)

M.S. Shetty & A.K. Jain

## About the Book

*"Concrete Technology: Theory and Practice"* gives students of Civil Engineering a thorough understanding of all aspects of concrete technology from first principles. It covers types of Cement, Admixtures, Concrete strength, durability and testing with reference to national standards. For more than 30 years, the book has evolved to be a must-read for all students of the subject and has also been a useful reference book for practising engineers.

## Salient Features

- Divided into 16 chapters, the book elucidates all theories in an apropos manner.
- THREE NEW Chapters on "*Production and Placing of Concrete*, "*Temperature Control of Concrete at Early Ages* and *Extreme Weather Concreting*" and "Repair Technology for Concrete Structures".
- More than 900 figures, tables and references strengthen the well-explained theoretical concepts.

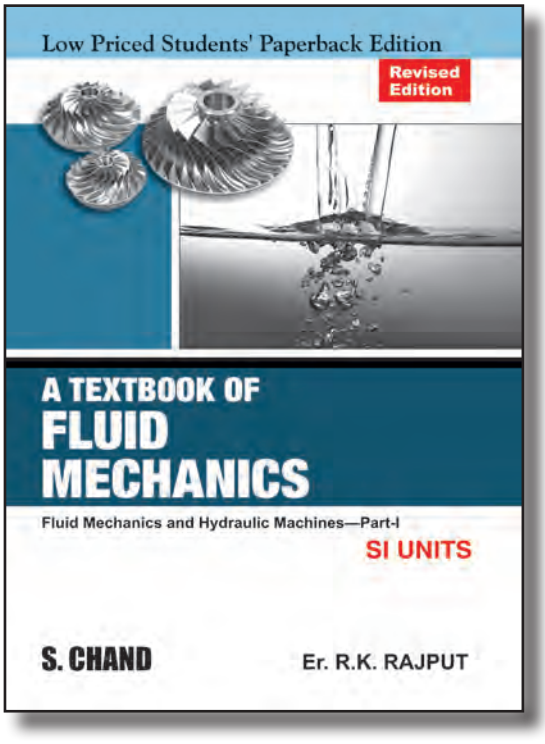
**ISBN: 9789352533800 | Price: ₹ 750 | Pages: 664 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Cement
2. Types of Cement and Testing of Cement
3. Aggregates and Testing of Aggregates
4. Water
5. Admixtures and Construction Chemicals
6. Properties of Fresh Concrete
7. Production and Placing of Concrete
8. Strength of Concrete
9. Elasticity, Creep and Shrinkage
10. Durability of Concrete
11. Testing of Hardened Concrete
12. Concrete mix Design
13. Temperature Control of Concrete at Early Ages and Extreme Weather Concreting
14. Special Concretes and Concreting Methods
15. Self-Compacting Concrete
16. Repair Technology for Concrete Structure

**M S Shetty** is ex-HOD, Department of Construction Engineering, College of Military Engineering (CME), Ministry of Defence, Pune and VP Indian Concrete Institute. Apart from that he has been principal consultant for MC Bauchemie and Grasim Industries Ltd. among others.

**A K Jain** is alumini of IIT Roorkee/ IIT Delhi and fellow of Institution of Engineers (India), Indian Concrete Institute, Indian Roads Congress and Indian Building Congress.




# A Textbook of Fluid Mechanics (LPSPE)

R.K. Rajput

## About the Book

*"A Textbook of Fluid Mechanics"* provides a comprehensive coverage of the syllabus of Fluid Mechanics for different technical universities in India. Fluid mechanics has several categories, such as include Fluid kinematics, Fluid statics and Fluid dynamics.

A total of 16 chapters followed by two special chapters of 'Universities' Questions (Latest) with Solutions' and 'GATE and UPSC Examinations' Questions with Answers/Solutions' after each unit also make it an excellent resource for aspirants of various entrance examinations.

## Salient Features

- Close to 1400 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 900 chapter-end questions for practice.
- University Questions, GATE & UPSC Examination Questions and Laboratory Experiments at the end of the book add to the practice quotient of the students.

**ISBN: 9789352837205 | Price: ₹ 750 | Pages: 1,056 | Size: 6.5" X 9.25" (Paperback)**

## Contents

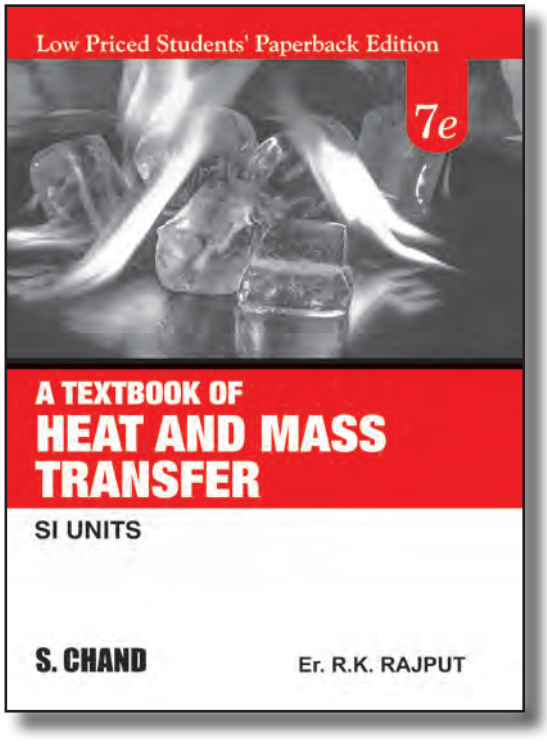
1. Properties of Fluids
2. Pressure Measurement
3. Hydrostatic Forces on Surfaces
4. Buoyancy and Floatation
5. Fluid Kinematics
6. Fluid Dynamics
7. Dimensional and Model Analysis
8. Flow through Orifices and Mouthpieces
9. Flow Over Notches and Weirs
10. Laminar Flow
11. Turbulent Flow in Pipes
12. Flow through Pipes
13. Boundary Layer Theory
14. Flow Around Submerged Bodies—Drag and Lift
15. Compressible Flow
16. Flow in Open Channels

- *Universities' Questions (Latest-Selected) with Solutions*
- *"GATE" and "UPSC" Examinations' Questions with Answers/Solutions (Latest-Selected)*
- *Laboratory Practical*
- *Index*

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.

LOW PRICED STUDENTS' PAPERBACK EDITION

LOW PRICED STUDENTS' PAPERBACK EDITION




# A Textbook of Heat and Mass Transfer, 7e (LPSPE)

R.K. Rajput

## About the Book

*"Hear and Mass Transfer"* is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC.

Divided into 5 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

## Salient Features

- Introductory chapter explains all basic theories of the subject followed by 11 succinctly written chapters which encompass all basic concepts.
- Close to 950 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 750 chapter-end questions, University Questions, GATE & UPSC Examination Questions and Laboratory Experiments for practice.
- Free On the Website: Chapter on "Radiation Exchange Between Surfaces"

**ISBN: 9789352837212 | Price: ₹ 650 | Pages: 936 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Basic Concepts

Part-I: Heat Transfer by "Conduction"

2. "Conduction" Heat Transfer at Steady State – One Dimension
3. Conduction Heat Transfer at Steady State – Two Dimensions and Three Dimensions
4. Heat Conduction–Transient (Unsteady State)

Part-II: Heat Transfer by "Convection"

5. Heat Transfer by "Forced Convection"
   - A. Laminar Flow
   - B. Turbulent Flow
6. Heat Transfer by "Free Convection"
7. Boiling and Condensation
8. Heat Exchangers

Part-III: Heat Transfer by "Radiation"

9. Heat Transfer by Radiation

Part-IV: Mass Transfer

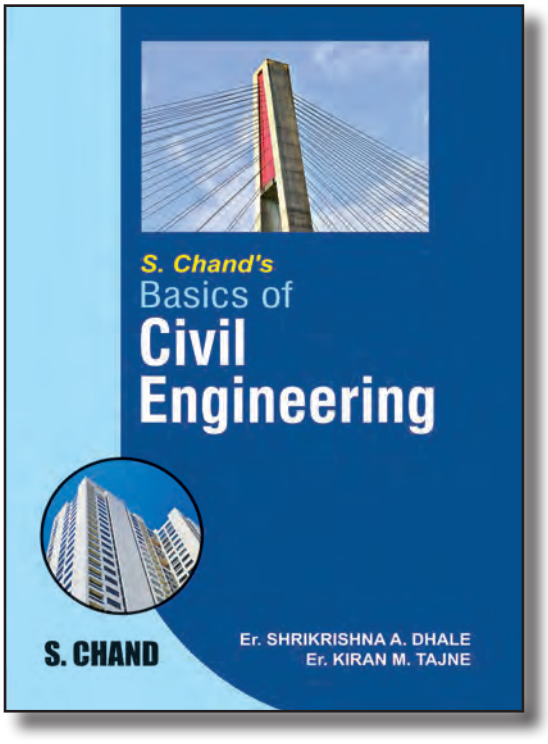
10. Mass Transfer

Part-V: Miscellaneous

11. Introduction to Hydrodynamics
12. Dimensional Analysis
13. Universities' Examinations Questions (Latest-Selected) with Answers/Solutions
14. Gate and UPSC Examinations' Questions (Latest-Selected) with Answers/Solutions

- *Index*

**R.K. Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




# S. Chand's Basics of Civil Engineering

Er. Shrikrishna A Dhale & Er. Kiran M. Tajne

New

## About the Book

Basics of Civil Engineering is considered as one of the basic subjects for all the engineering students of all branches. The contents of this book are framed in such a way that they will be useful to the technocrats who are working on the administrative positions to deal with the basic knowledge of Civil Engineering. The book contains 11 chapters where every important concept of Civil Engineering is fairly treated. It throws light on the basic areas of Civil Engineering such as Structural Engineering, Geotechnical Engineering, Hydraulics and Irrigation Engineering, Environmental Engineering, Surveying and Construction Technology. Thus, this book is a proper blend of all these.

## Salient Features

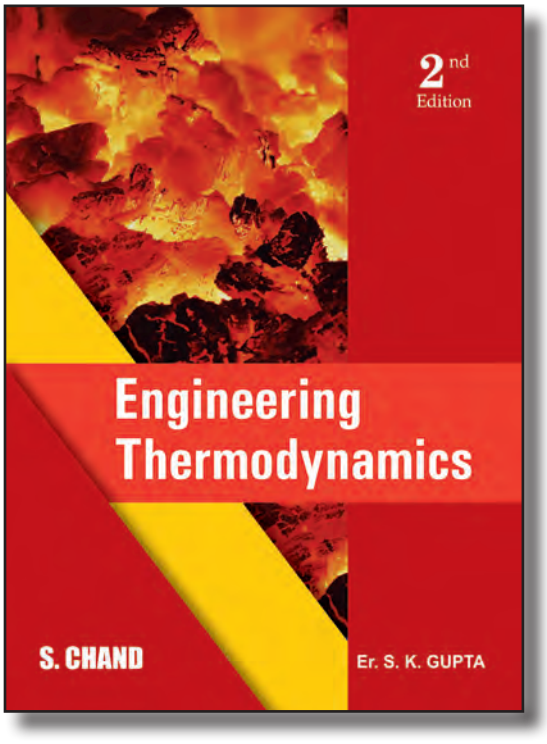
- The book has been written in a simple and comprehensible language
- It covers all important topics, concepts, and principles for more focused learning
- Over 150 graphs and figures providing ample support to the theory explained

**ISBN: 9789355016133 | Price: ₹ 300 | Pages: 232 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction to Civil Engineering
2. General Concepts Related to Building
3. Components of Buildings
4. Building Materials
5. Surveying
6. Transportation Engineering
7. Environment and Natural Resource Management
8. Waste Management
9. Water Resources Engineering
10. Instrumentation In Civil Engineering Structures
11. Sustainable Development Concept Of Green Building
• Latest Question Paper 2012 With Hints

LOW PRICED STUDENTS' PAPERBACK EDITION




# Engineering Thermodynamics, 2e

Er. SK Gupta

## About the Book

*Engineering Thermodynamics* completely covers the subject for both the students of Mechanical and Civil Engineering (as per AICTE). With topics such as Fuels and Combustion, Refrigeration and Air-Conditioning and Air Compressors delved into deeply and as many as 14 new chapters, it becomes one of the most comprehensive Indian-authored texts.

## Salient Features

- Complete Coverage: Of two core courses as per AICTE - Mechanical Engineering (Subject Name: Thermodynamics) and Civil Engineering (Subject Name: Mechanical Engineering; Semester IV).
- Pedagogically Strong:
  - Point-wise chapter-end highlights for quick revision.
  - Close to 1000 figures, tables and examples for better grasp of the topics.
  - Close to 1200 exercises, questions and objective type questions for better practice.
  - Notes placed within chapters highlighting important concepts.
- 14 New Chapters on the following topics:
  - Thermodynamic Relations (1 Chapter)
  - Fuels and Combustion (3 Chapters)
  - Refrigeration and Air-Conditioning (4 Chapters)
  - Heat Transfer (1 Chapter)
  - Compressible Fluid Flow (1 Chapter)
  - Air Compressors (3 Chapters)
  - Working and Testing of I.C. Engines (1 Chapter)

**ISBN: 9789352834051 | Price: ₹ 1099 | Pages: 1,064 | Size: 6.5" X 9.25" (Paperback)**

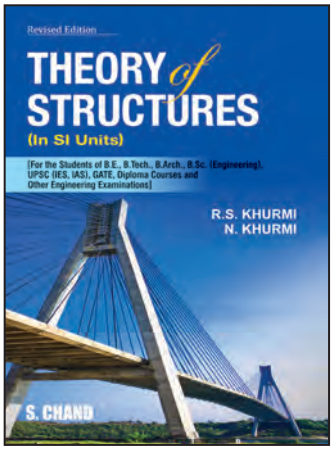
## Contents

1. Basic Concepts
2. Zeroth Law of Thermodynamics
3. Ideal and Real Gases
4. First law of Thermodynamics
5. First Law Applied to Flow Processes
6. Second Law of Thermodynamics
7. Entropy, Availability and Irreversibility
8. Properties of Pure Substances
9. Vapour Processes
10. Vapour Power Cycles
11. Air Standard Cycles
12. Mixture of Gases
13. Thermodynamic Relations
14. Fuels
15. Combustion of Fuels
16. Reacting Mixtures and Combustion
17. Refrigeration Cycles
18. Vapour Compression and Absorption Refrigeration Systems
19. Psychrometry
20. Air Conditioning Systems
21. Heat Transfer
22. Compressible Flow of Fluids
23. Reciprocating Air Compressors
24. Rotary Air Compressors
25. Air Motors
26. Working and Testing of I.C. Engines

PROPERTIES OF STEAM

- Table 1: Properties of Saturated Water and Steam (Pressure based)
- Table 2: Properties of Saturated Water and Steam (Temperature based)
- Table 3: Properties of Superheated Steam
- Chart 1: Mollier Diagram
- Chart 2: Psychrometric Chart

**Er. SK Gupta** is a post-graduate engineer and has good experience in technical education.




## Theory of Structures (In SI Units)

R S Khurmi & N. Khurmi

### About the Book

*"Theory of Structures"* covers the syllabus of most major Indian Universities.
The book is designed for the students of Civil Engineering but is also useful for the students of B. Arch, B.Sc. and AMIE. It also contains typical examples (useful for students appearing in competitive examinations in particular), highlights and unsolved examples. The book is aptly divided into 6 parts which is further sub-divided into 23 chapters ranging from topics like Beams, Bridges to Stresses and Deflection, Fixed beams to redundant frames and columns and struts.

### Salient Features

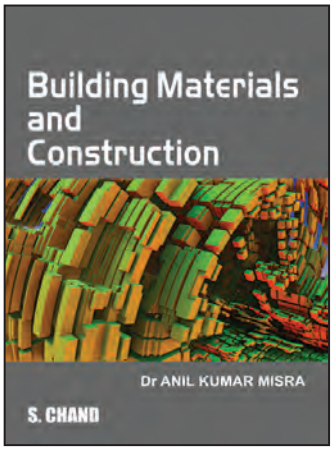
- Introductory first chapter discusses not only discusses the basic concepts but also all Units and also Mathematical Review
- Close to 900 figures, tables, examples and chapter-end highlights provide ample support to the theory explained
- In-text exercise questions provide practice to students as well as refresh the concepts explained in a practical manner.

**ISBN: 9788121905206 | Code: 1010D00030 | Price: ₹ 840 | Pages: 728 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction, **Part-1** 2. Rolling Loads, 3. Influence Lines for Beams, 4. Influence Lines for Trussed Bridges, **Part-2** 5. Direct and Bending Stresses (in Columns, Walls and Chimneys), 6. Dams and Retaining Walls, **Part-3** 7. Deflection of Beams, 8. Deflection of Cantilevers, 9. Deflection by Moment Area Method, 10. Deflection by Conjugate Beam Method, 11. Deflection of Perfect Frames , 12. Cables and Suspension Bridges, 13. Three-hinged Arches, **Part-4** 14. Propped Cantilevers and Beams,15. Fixed Beams, 16. Three Moments Theorem (For Continuous Beams), 17.Slope Deflection Method, 18. Moment Distribution Method, 19. Column Analogy Method, 20. Two-hinged Arches, **Part-5** 21. Forces in Redundant Frames (Including Castigliano's & Maxwell's Theorems), **Part-6** 22. Columns and Struts, 23. Introduction to Plastic Theory, • **Appendix:,** 1.Angle of Repose and Characteristics of Commonly Retained Materials, 2. Slopes and Deflections for Different Loadings on Cantilevers and Beams, 3.Relation between the Actual Beam and Conjugate Beam, 4. Fixed Beam Loadings and Fixed End Moments, 5.Properties of Plane Areas, • *Index*

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## Building Materials and Construction

Anil Kumar Misra

### About the Book

*"Building Materials and Construction"* is primarily written for the students of Civil Engineering to make them familiar with building materials and construction practices to build their interest in the field. The book starts with explanation of building material concepts and goes on to explain all the important materials like Lime, Bricks, Cement, Timber, Concrete etc. in separate chapters following the same flow as prescribed in major universities.

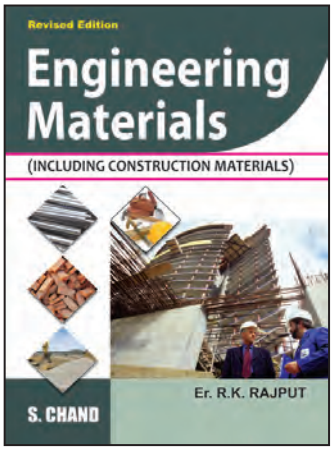
### Salient Features

- Special emphasis on construction materials such as foundation work, stone and brick masonry, plastering work, door and window design, roof and floors and DPC among others.
- Exhaustive coverage of major Indian universities curriculum
- A separate chapter on modern construction techniques and instruments used in construction work

**ISBN: 9789384319809 | Code: 1010000623 | Price: ₹ 365 | Pages: 384 | Size: 6.5" X 9.25"(Paperback)**

### Contents

1. Building Stones, 2. Ceramic Building Materials, 3. Lime, 4. Bricks, 5. Cement, 6. Timber , 7.Mortar, 8. Pozzolans, 9. Concrete, 10. Geosynthetic Materials, 11. Special Concrete, 12. Formwork Materials, 13. Ferrous Metals, 14. Steel, 15. Non-ferrous Metals, 16. Glass, 17. Paints, Varnishes and Distemper, 18. Bitumen, Tar and Asphalt, 19. Plastic, 20. Miscellaneous Materials, 21. Brick Masonry, 22. Stone Masonry, 23. Foundation Work, 24. Arches and Lintels, 25. Plastering and Pointing, 26. Door and Windows 27. Stairs and Lifts , 28. Roof and Floors, 29. DPC and Waterproofing, 30. Ordinary Building Construction Equipment's




## Engineering Materials (Including Construction Materials) 4e

R.K. Rajput

### About the Book

For close to 20 years *"Engineering Materials"* is a useful resource for Civil Engineering students as well as practicing Engineers. It has been divided into 22 chapters ranging from - Building stones, Bricks and Lime to Mortar, Concrete and Timber, from Metals and Alloys to Insulating materials and from lubricating materials to ceramic materials. Special emphasis has been given to construction materials which is must to know for practicing engineers.

### Salient Features

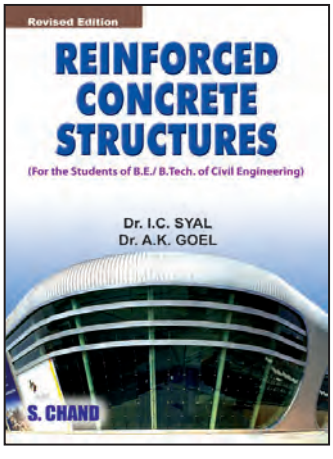
- The text tackles all major concepts of the subject in a concise but meticulous manner.
- Close to 300 Examples, Figures and chapter-end highlights aid to the understanding of students.
- A staggering 1500+ chapter-end Theoretical Questions and Objective Type Questions as well as book-end Short-Answer questions with answers are provided for practice.

**ISBN: 9788121919609 | Code: 1010D00210 | Price: ₹ 550 | Pages: 528 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Building Stones, 3. Bricks and Other Clay Products, 4. Lime, 5. Cement, 6. Mortar, 7. Concrete, 8. Timber and Wood-based Products, 9. Metals and Alloys, 10. Paints, Varnishes, Distempers and Anti-termite Treatment, 11. Asphalt, Bitumen and Tar, 12. Asbestos, Adhesives and Abrasives, 13. Plastics and Fibres, 14. Glass, 15. Insulating Materials, 16. Fly-Ash, Gypsum and Gypsum Plaster, 17. Elastomers and Composite Materials, 18. Lubricating, Belting and Packing Materials, 19. Cutting Tool Materials, 20. Electrical Engineering Materials, 21. Material Science of Metals, 22. Ceramic Materials • *Section: Short Answer Questions* • *Index*

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## Reinforced Concrete Structure, 4e

I C Syal & A K Goel

### About the Book

*"Reinforced Concrete Structures"* is strictly written as per the syllabus of different technological universities for Civil Engineering. It follows latest Indian Standard Specifications and Code of Practices related to cement and concrete. Detailed analysis and design of end blocks by different methods form an important feature of the book. This book will also be useful for practicing civil engineers for the knowledge of reinforced concrete in construction industry.

### Salient Features

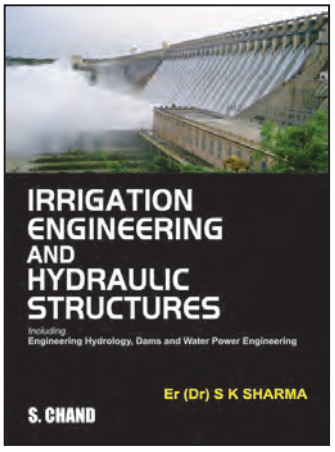
- Special emphasis on Masonry Structures, Concrete Bridges and Design examples of Limit State Method.
- More than 700 figures, tables, examples and charts showing details of reinforcement as practiced in India have been included in the book.
- SI Units equivalents and Properties of round bars have been included at the end of the book.

**ISBN: 9788121923538 | Code: 1010C00282 | Price: ₹ 795 | Pages: 830 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Part-I: Materials: 1. Introduction, Part-II: Working Stress Method of Design: 2. Reinforced Concrete Beam Analysis, 3. Beam Reinforced in Tension and Compression, 4. Shear, Bond and Torsion, 5. Design of Rectangular Beams, 6. Flanged Beams, 7. Slabs, 8. Axially Loaded Columns, 9. Combined Bending and Direct Stresses, 10. Foundations, 11. Stairs, 12. Retaining Walls, 13. Domes, 14. Beams Curved in Plan, 15. Reinforced Brick Work, 16. Formwork, Part-III: Limit State Method of Design: 17. Introduction to Limit State Design, 18. Limit State of Collapse: Flexure, 19. Limit State of Collapse: Shear, 20. Limit State of Collapse: Torsion, 21. Limit State of Collapse: Compression, 22. Limit State of Serviceability, 23. Development Length and Anchorage, Part-IV: Water Storage Tanks: 24. Water Tanks, Part-V: Prestressed Concrete: 25. Prestressed Concrete, 26. Masonry Structures, 27. Concrete Bridges, 28. Design Examples on Limit State Method, 29. Yield Line Theory • *References* • *Appendices* • *A: Imposed Floor Loads for Different Occupancies* • *B: SI Units Equivalents* • *C: Properties of Round Bars* • *D: Unit Weights of Building Materials and Stored Materials* • *Index*

**I C Syal** is retired Professor and Head, Department of Civil Engineering, Punjab Engineering College, Chandigarh.
**A K Goel** is Professor of Civil Engineering, Faculty of Engineering & Technology, Manav Rachna International University, Faridabad.




## Irrigation Engineering and Hydraulic Structures

S.K. Sharma

### About the Book

*"Irrigation Engineering and Hydraulic Structures"* is a comprehensive book dealing with all the aspects of Irrigation in India starting from soil moisture to different types of irrigation systems like Sprinkler, Tubewell, Canal and Micro-Irrigation. It also focuses on Engineering Hydrology, Dams, Water Power Engineering as well as Irrigation Water Management. The book specially highlights the principles, practices and design procedures that have been widely recommended around the world.

### Salient Features

- Complete syllabi coverage of major Indian Universities, NIT's, IIT's, A.M.I.E and the like.
- Detailed designs of important hydraulic structures which are worked out with the help of illustrations.
- 1400+ chapter-end questions and references provide practice to the thorough content provided.
- Close to 950 Illustrations, tables and in-text problems aid the understanding of concepts.

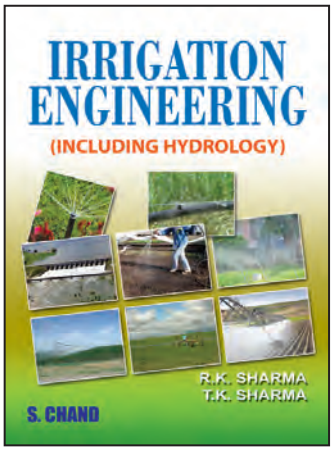
**ISBN: 9789352533770 | Code: 9789352533770 | Price: ₹ 975 | Pages: 1,200 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Irrigation and its Planning in India, 2. Irrigation Soils and their Fertility, 3. Principal Crops in India, 4. Soil-Water-Plant Relationships, 5. Irrigation Water - its Application and Assessment, 6. Sprinkler Irrigation, 7. Micro-irrigation (Drip/Trickle etc.), 8. Ground Water (Open Wells), 9. Tubewell Irrigation, 10. Canal Irrigation, 11. Unlined Canals – Silt Theories, 12. Unlined Canals – Their Planning and Design, 13. Lined Canals and their Design, 14. Lift Irrigation, 15. Water Logging, 16. Drains, 17. Land Reclamation, 18. River Engineering, 19. River Training Works, 20. Theories of Seepage, 21. Diversion Headworks, 22. Design of Weir/ Barrage and Canal Head Regulator, 23. Canal Regulators, 24. Canal Falls, 25. Cross-drainage Works, 26. Canal Outlets, 27. Engineering Hydrology, 28. Gravity Dams, 29. Arch Dams, 30.Buttress Dams, 31. Earth and Rockfill Dams, 32. Spillways, 33. Energy Dissipaters, 34.Water Power Engineering, 35. Irrigation Water Management

**S K Sharma** is a former Professor and Head, Civil Engineering Department, PEC University, Chandigarh. He graduated from IIT Kharagpur and also did his M.Sc. (Engineering) with distinction from Punjab University and completed his Ph.D. in record time.

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## Irrigation Engineering (Including Hydrology)

R.K. Sharma & T.K. Sharma

### About the Book

*"Irrigation Engineering"* is written for the students of Civil and Agricultural engineering of different universities. Apart from its core objective of presenting the topics of Irrigation Engineering in a very lucid manner, the book focuses on clarity of concepts related with designing of Irrigation Engineering Structures thereby making it a must read for students.

### Salient Features

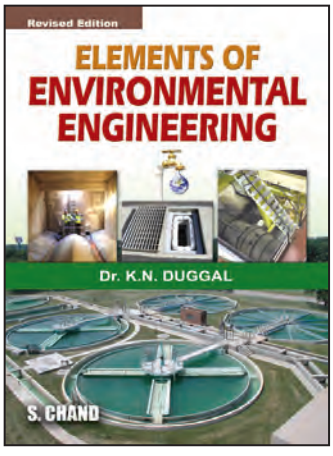
- Follows the practices as standardised by Bureau of Indian Standards.
- Theoretical principles have been blended with field practices for better understanding of principles and practices of irrigation engineering.
- Incorporates essence of planning design and construction of Bhakra Dam, Pong Dam and Sardar Sarovar Canal systems.
- 700 figures, tables and diagrams are followed by close to 400 question for better understanding of students.

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**R K Sharma** is Consultant, Water Resources.




## Elements of Environmental Engineering, 3e

K.N. Duggal

### About the Book

Primarily written to serve as a textbook for Civil Engineering, *"Elements of Environmental Engineering"* also serves the students of Chemical Engineering, AMIE, UPSC and Diploma courses. It brings together the three principal areas of environmental engineering - Water, Air and Earth pollution. The important principles and practices of Sanitary Engineering have been exhaustively covered so that it may be easy for the students preparing for various examinations.

A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the most sought after texts by the students.

### Salient Features

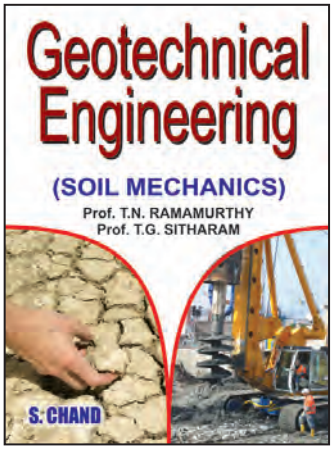
- Succinct treatment of the subject makes an otherwise difficult subject easier to understand.
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**K N Duggal** is Ph.D., C. Eng. (I) FIE.




## Geotechnical Engineering (Soil Mechanics) 4e

T.N. Ramamurthy & T.G. Sitharam

### About the Book

Primarily written for Civil Engineering, *"Geotechnical Engineering"* is also written at a level suitable for the first course in Geotechnical Engineering. It highlights the basic principles of soil mechanics along with application to many problems in the subject. The subject is explained in a very simple, clear and logical manner.

### Salient Features

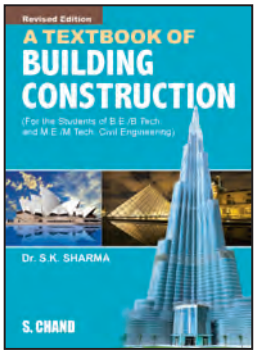
- Standard notations have been used throughout the book and content has been based on SI units.
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- Additional questions for practice and 2 Appendixes (IS Sieves and Solution to Terzaghi's One Dimensional Consolidation Equation) are provided at the end of the book apart from close to 450 figures, tables, problems/ examples and questions throughout the text to help students in developing analytical skill needed for problem solving.

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**T N Ramamurthy** is Professor, Department of Civil Engineering, RV College of Engineering, Bangalore.
**T G Sitharam** is Professor, Department of Civil Engineering, Indian Institute of Science (IISc) Bangalore.




## A Textbook of Building Construction

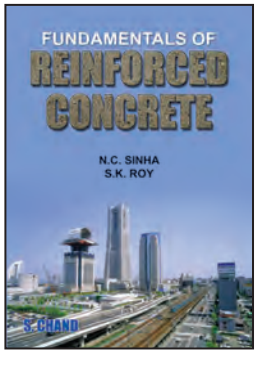
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**S K Sharma** is Former Professor and Head of Civil Engineering, PEC University of Technology, Chandigarh.




## Fundamentals of Reinforced Concrete

N.C. Sinha & S.K. Roy

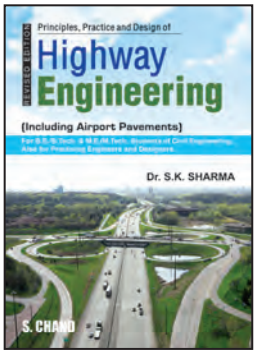
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**S. K. Roy** is M.E., (N.B.U.) Ph.D. (Indian Institute of Technology Kharagpur) and former Assistant Professor Department of Civil Engineering, Bengal Engineering College.




## Principles, Practice and Design of Highway Engineering, 3e

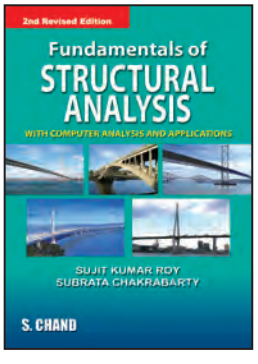
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**S K Sharma** is Former Professor and Head of Civil Engineering, PEC University of Technology, Chandigarh.




## Fundamentals of Structural Analysis, 2e

Sujit Kumar Roy & Subrata Chakrabarty

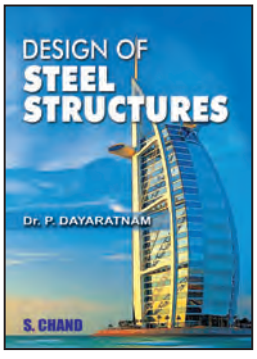
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**Sujit Kumar Roy** is Ph.D. (IIT, Kharagpur), MIE (India) Assistant Professor of Civil Engineering.

**Subrata Chakrabarty** is Ph.D. (IIT, Kharagpur) Bengal Engineering College.




## Design of Steel Structures, 3e

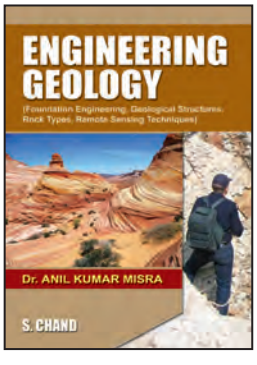
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**P Dayaratnam** is PhD (Colorado) Ex Dean of R&D, IIT Kanpur, Ex-Vice Chancellor JNTU Hyderabad.




## Engineering Geology

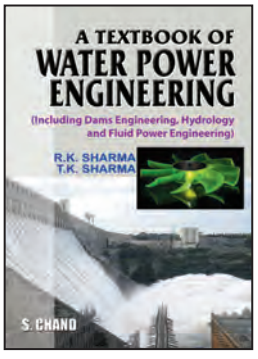
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**Anil Kumar Misra,** Ph. D., is Associate Professor in Department of Civil and Environmental Engineering at The NorthCap University (formerly ITM University Gurugram), Gurugram, Haryana.




## A Textbook of Water Power Engineering,

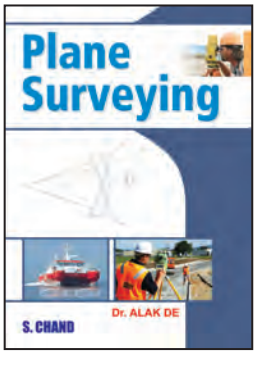
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**R K Sharma** is Consultant Water Resources & **T K Sharma** is B.E.




## Plane Surveying

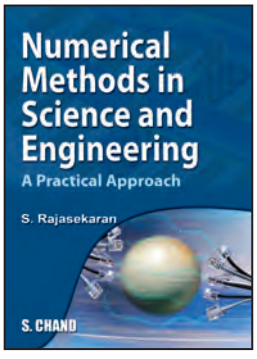
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**Alak De** is Member National Safety Council, Professor of Civil Engineering and Head of Environmental Engineering Division, Jadavpur University.




## Numerical Methods in Science and Engineering – A Practical Approach, 2e

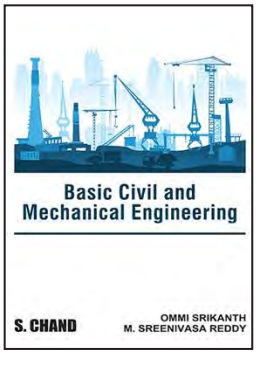
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**S Rajasekaran** is Ph.D. (Canada) D.Sc. (Civil Engg.), DSS, FIE, FIV, M.ASCE, MCSI, MISTE, FNAE, Professor of Infrastructural Engineering, Department of Civil Engineering, PSG College of Technology, Coimbatore.




## Basic Civil and Mechanical Engineering

Ommi Srikanth & M. Sreenivasa Reddy

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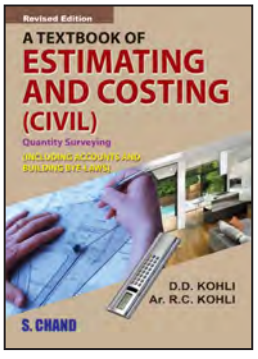
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## A Textbook of Estimating and Costing (Civil) 2e

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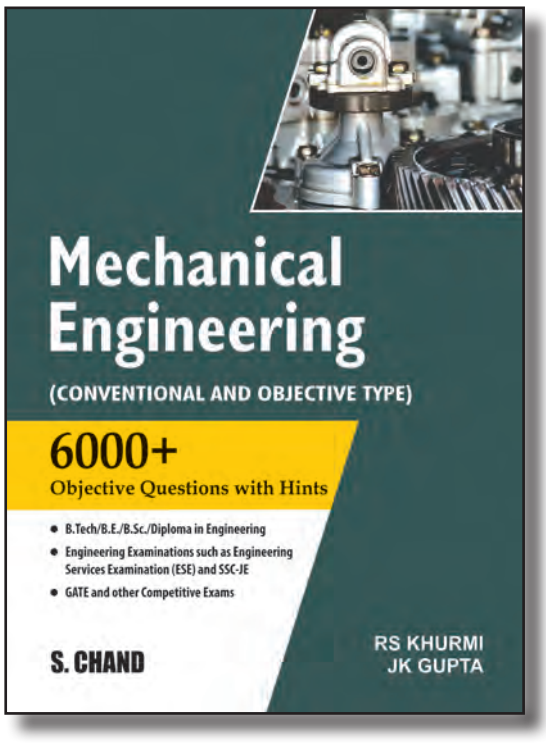
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**D.D. Kohli** is formerly of PWD (B & R) and Thapar Polytechnic, Patiala.

**R.C. Kohli** is Former HOD, Thapar Polytechnic College, Patiala. Currently, he is HOD, Civil, E–Max Group of Institutes (Polytechnic), Ambala.




# Mechanical Engineering (Conventional and Objective Type)

R.S. Khurmi & J.K. Gupta

## About the Book

For more than 30 years "Mechanical Engineering: Conventional and Objective Type" continues to be a comprehensive text aided by a collection of multiple-choice questions specifically for aspirants of various competitive examinations such as GATE, UPSC, IAS, IES and SSC-JE among others as well as students who are preparing for university examinations. The new edition contains 17 chapters where every important concept of Mechanical Engineering is fairly treated. On the other hand, the questions provided in this book have been selected from various potent resources to provide the students with an idea of how the questions are set and what type of questions to expect on the final day.

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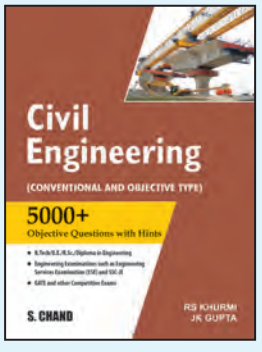
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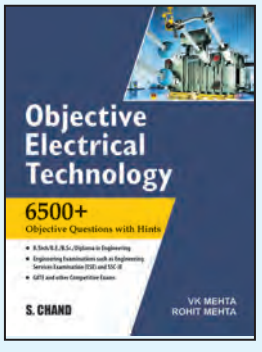
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14. Workshop Technology
15. Production Engineering
16. Industrial Engineering and Production Management
17. Automobile Engineering
- *Index*

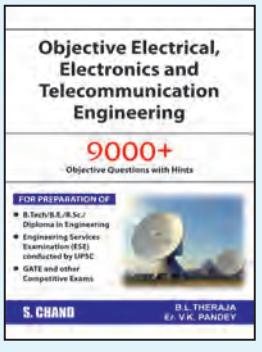
## Objective Series for B.Tech/ B.E./B.Sc./ ESE & GATE Examinations



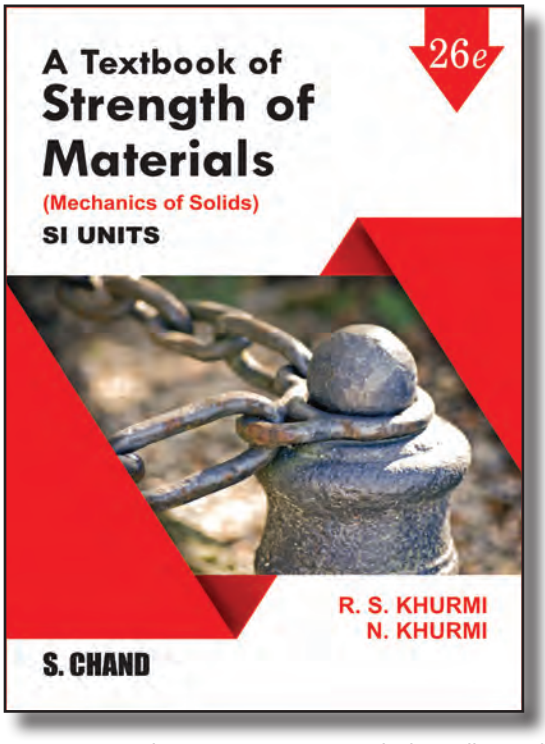

ISBN: 9789355014443 ₹ 699




ISBN: 9789355014467 ₹ 825




ISBN: 9788121925716 ₹ 699




# A Textbook of Strength of Materials, 26e (Mechanics of Solids) SI Units

R.S. Khurmi & N. Khurmi

Multicolour Edition

## About the Book

*"Strength of Materials: Mechanics of Solids in SI Units"* is an all-inclusive text for students as it takes a detailed look at all concepts of the subject. Distributed evenly in 35 chapters, important focusses are laid on stresses, strains, inertia, force, beams, joints and shells amongst others.

Each chapter contains numerous solved examples supported by exercises and chapter-end questions which aid to the understanding of the concepts explained. A book which has seen, foreseen and incorporated changes in the subject for close to 50 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

## Salient Features

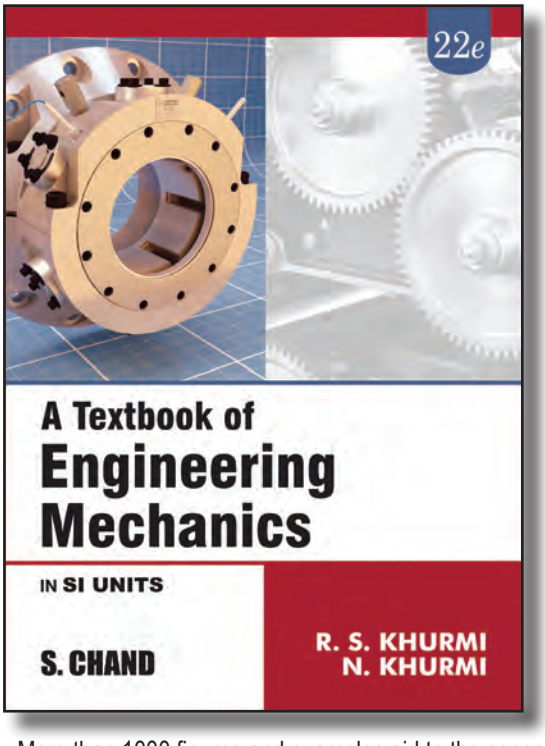
- 35 chapters provide an in-depth coverage of every important concept in the subject.
- More than 1000 examples, figures and tables aid to the concepts explained.
- More than 600 in-text exercise questions and chapter-end questions add to the practice of the students.
- FIVE NEW Chapters on "Unsymmetrical Bending and Shear Centre", "Mechanical Properties of Materials (Stress-Strain Diagram)", "Torsion of Circular Shafts", "Theories of Failure" and "Testing of Materials"
- Free On the Website: 9 Chapters on "Analysis of Perfect Frames (Graphical Method)", "Dams and Retaining Walls", "Deflection by Conjugate Beam Method", "Moment Distribution Method", "Torsion of Circular Shafts", "Riveted Joints", "Welded Joints", "Introduction to Reinforced Concrete" and "Mechanical Properties and Testing of Materials (Stress-Strain Diagram)"

**ISBN: 9789352833979 | Price: ₹ 1050 | Pages: 832 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Mechanical Properties of Materials (Stress-Strain Diagram)
3. Simple Stresses and Strains
4. Stresses and Strains in Bars of Varying Sections
5. Stresses and Strains in Statically Indeterminate Structures
6. Thermal Stresses and Strains
7. Elastic Constants
8. Principal Stresses and Strains
9. Strain Energy and Impact Loading
10. Centre of Gravity
11. Moment of Inertia
12. Analysis of Perfect Frames (Analytical Method)
13. Bending Moment and Shear Force
14. Bending Stresses in Simple Beams
15. Bending Stresses in Composite Beams
16. Shearing Stresses in Beams
17. Direct and Bending Stresses
18. Deflection of Beams
19. Deflection of Cantilevers
20. Deflection by Moment Area Method
21. Torsion of Circular Shafts
22. Springs
23. Thin Cylindrical and Spherical Shells
24. Thick Cylindrical and Spherical Shells
25. Columns and Struts
26. Propped Cantilevers and Beams
27. Fixed Beams
28. Theorem of Three Moments
29. Strain Energy & Deflection Due to Bending & Shear (and Castigliano's Theorem)
30. Bending of Curved Bars
31. Theories of Failure
32. Testing of Materials
33. Product of Inertia
34. Unsymmetrical Bending and Shear Centre
35. Stresses due to Rotation

- *Appendix*
- *Index*




# A Textbook of Engineering Mechanics, 22e

R.S. Khurmi & N. Khurmi

Multicolour Edition

## About the Book

*"A Textbook of Engineering Mechanics"* is a must-buy for all students of engineering as it is a lucidly written textbook on the subject with crisp conceptual explanations aided with simple to understand examples.

Important concepts such as Moments and their applications, Inertia, Motion (Laws, Harmony and Connected Bodies), Kinetics of Motion of Rotation as well as Work, Power and Energy are explained with ease for the learner to really grasp the subject in its entirety.

A book which has seen, foreseen and incorporated changes in the subject for 50 years, it continues to be one of the most sought after texts by the students.

## Salient Features

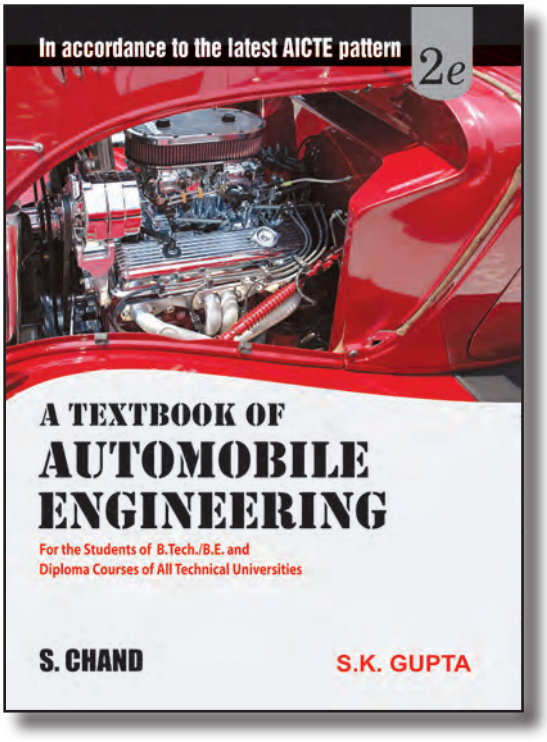
- 38 chapters evenly explain all major theories of the subject.
- SEVEN NEW Chapters on "Pappus – Guldinus Theorem", "Product of Inertia", "Product of Inertia", "Vibrations", "Mass Moment of Inertia", "Work-Energy Method" and "Forces in Space (In Vector Form)"
- More than 1000 figures and examples aid to the concepts explained.
- More than 750 in-text exercise and chapter-end questions for practice.
- Free On the Website: 6 Chapters on "Analysis of Perfect Frames (Graphical Method)", "Equilibrium of Strings", "Balancing of Rotating Masses", "Motion of Vehicles", "Hydrostatics" and "Equilibrium of Floating Bodies".

**ISBN: 9789352833962 | Price: ₹ 895 | Pages: 784 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Forces
3. Moments
4. Parallel Forces and Couples
5. Equilibrium of Forces
6. Centre of Gravity
7. Moment of Inertia
8. Principles of Friction
9. Applications of Friction
10. Principles of Lifting Machines
11. Simple Lifting Machines
12. Support Reactions
13. Analysis of Perfect Frames (Analytical Method)
14. Virtual Work
15. Linear Motion
16. Motion Under Variable Acceleration
17. Relative Velocity
18. Projectile Motion
19. Motion of Rotation
20. Combined Motion of Rotation and Translation
21. Simple Harmonic Motion
22. Laws of Motion
23. Motion of Connected Bodies
24. Helical Springs and Pendulums
25. Collision of Elastic Bodies
26. Motion Along a Circular Path
27. Work, Power and Energy
28. Mass Moment of Inertia
29. Kinetics of Motion of Rotation
30. Transmission of Power by Belts and Ropes
31. Transmission of Power by Gear Trains
32. Work-Energy Method
33. Forces in Space (In Vector Form)
34. Pappus—Guldinus Theorems
35. Product of Inertia
36. Rectangular and Cylindrical Coordinate System in Dynamics
37. Vibrations
38. Forces in Space (In Vector Form)

- *Appendix*
- *Index*




# A Textbook of Automobile Engineering, 2e

Er. S.K. Gupta

## About the Book

A Textbook of Automobile Engineering is a comprehensive treatise which provides clear explanation of vehicle components and basic working principles of systems with simple, unique and easy-to-understand illustrations. The textbook also describes the latest and upcoming technologies and developments in automobiles.

This edition has been completely updated covering the complete syllabi of most Indian Universities with the aim to be useful for both the students and faculty members. The textbook will also be a valuable source of information and reference for vocational courses, competitive exams, interviews and working professionals.

## Prominent Features:

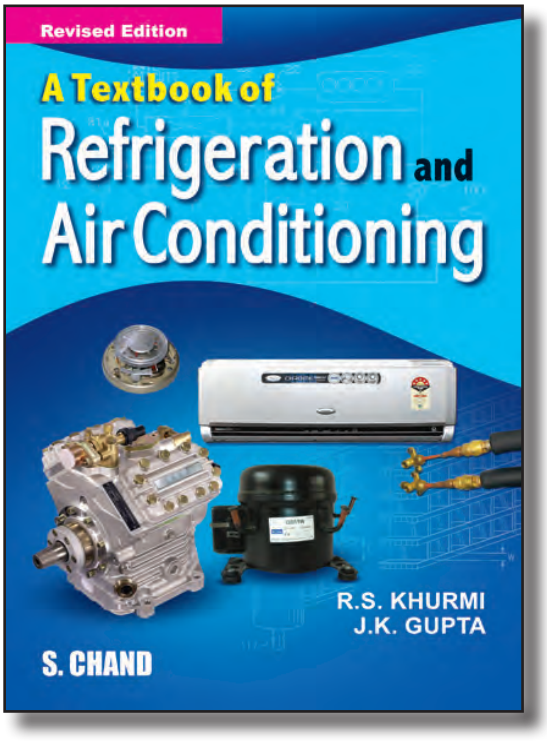
- Inclusion of four new chapters on Alternate Fuels, Hybrid, Electric and Fuel Cell vehicles, Advanced Vehicle Technologies and Regulation and Standards.
- 1000+ Examples, Figures and Tables for better understanding of concepts.
- 1000+ Exercises (unsolved numerical problems) with Answers, Theoretical Questions and Objective Type Questions with Answers from latest examination papers of various universities for rigorous practice.

**ISBN: 9789352838165 | Price: ₹ 825 | Pages: 944 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Introduction
2. Performance of Automobiles
3. Suspension System
4. Tyre and Wheel
5. Steering System
6. Braking System
7. Electrical fundamentals
8. Battery
9. Charging System
10. Starting System
11. Lighting System and Accessories
12. Air-conditioning, Heating and Ventilation Systems
13. I.C. Engines (Fundamentals and Components)
14. Combustion and Combustion Chambers
15. Working and Testing of I.C. Engines
16. Cooling System
17. Lubrication System
18. Fuel Supply System in Petrol Engines
19. Fuel Systems in Diesel Engines
20. Air Intake and Exhaust System
21. Air Pollution and its Control (Emission Control)
22. Ignition System
23. Clutches
24. Manual Transmission
25. Automatic Transmission
26. Drive Line System
27. Common Tools and Measuring Instruments
28. Maintenance System
29. Alternate Fuels
30. Hybrid, Electric and Fuel Cell Vehicles
31. Advanced Vehicle Technologies
32. Regulation and Standards

**Er. SK Gupta** is a post-graduate engineer and has good experience in technical education.




# A Textbook of Refrigeration and Air Conditioning, 5e

R.S. Khurmi & J.K. Gupta

## About the Book

*"A Textbook of Refrigeration and Air Conditioning"* is an aptly written textbooks for the students of Mechanical Engineering while also a must-read for anyone with an interest in the subject.

For 30 years, topics such as Air Refrigeration Cycles and Systems, Vapour Compression Refrigeration Systems (Simple and Compound), Refrigerants (incl. Compressors), Psychrometry and Applications of Refrigeration and Air Conditioning have been included and updated for students to conceptualise the subject in a complete manner. The chapters consist of various exercises, examples, and multiple illustrations that aid in understanding the subject better.

Multicolour Edition

## Salient Features

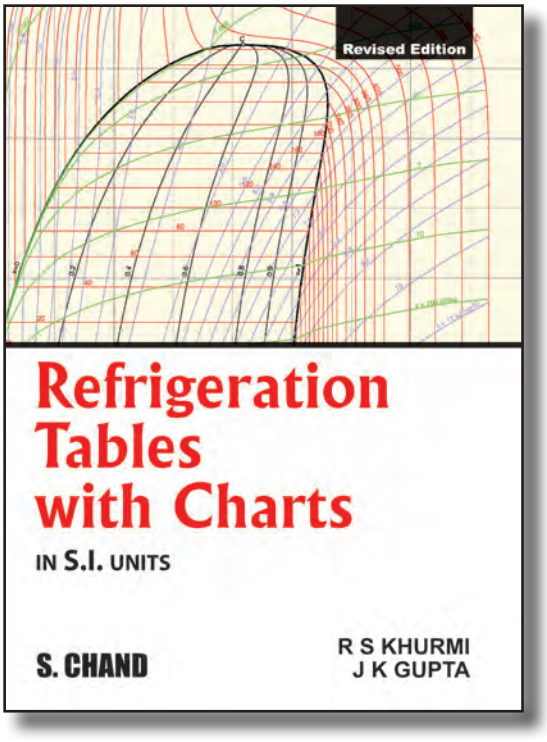
- Every concept has been treated individually and then linked within the chapter to provide not only information but also insight.
- Close to 800 examples, figures, tables and pictorial depictions aid to the concepts explained.
- More than 500 chapter-end (objective and subjective) and exercise questions add to the practice of the students.

**ISBN: 9788121927819 | Code: 4010B00326 | Price: ₹ 895 | Pages: 768 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Air Refrigeration Cycles
3. Air Refrigeration Systems
4. Simple Vapour Compression Refrigeration Systems
5. Compound Vapour Compression Refrigeration Systems
6. Multiple Evaporator and Compressor Systems
7. Vapour Absorption Refrigeration Systems
8. Refrigerants
9. Refrigerant Compressors
10. Condensers
11. Evaporators
12. Expansion Devices
13. Food Preservation
14. Low Temperature Refrigeration (Cryogenics)
15. Steam Jet Refrigeration System
16. Psychrometry
17. Comfort Conditions
18. Air Conditioning Systems
19. Cooling Load Estimation
20. Ducts
21. Fans
22. Applications of Refrigeration and Air Conditioning

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# Refrigeration Tables with Chart

R.S. Khurmi & J.K. Gupta

## About the Book

"Refrigeration Tables with Charts" is for undergraduate students of Mechanical and Electrical Engineering. The book comprises several tables and charts containing the properties of refrigerants, and various other concepts related to refrigeration.

## Salient Features

- The book includes psychometric chart, a friction chart for circular duct, a comfort chart for still air, and a moody chart showing friction factors for fluid flow in circular pipes or ducts
- This book is essential for students preparing for competitive examinations.

**ISBN: 9788121928298 | Code: 4010C00341 | Price: ₹ 150 | Pages: 48 | Size: 6.5" X 9.25" (Paperback)**

## Contents

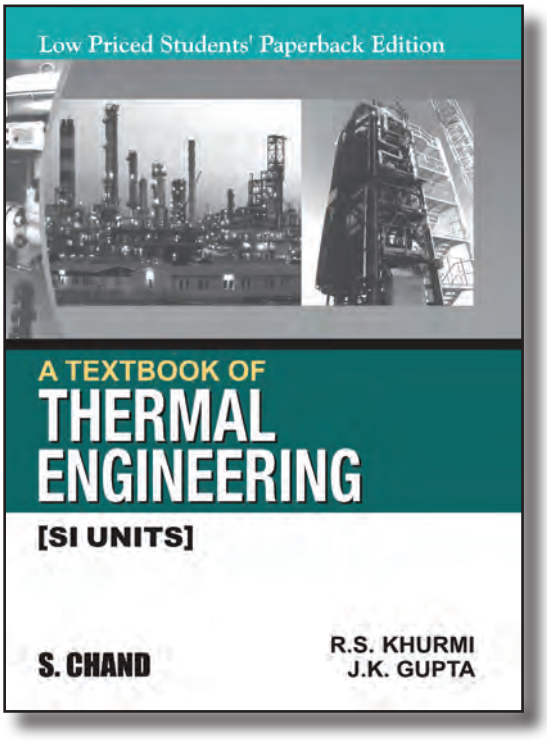
Tables

1. Dry Saturated Steam (Pressure based)
2. Dry Saturated Steam (Temperature based)
3. Saturated Trichloro-Monofluoro-Methane ($CCl_3F$), R-11
4. Saturated Dichloro-Difluoro-Methane ($CCl_2F_2$), R-12
5. Saturated Monochloro-Difluoro-Methane ($CHClF_2$), R-22
6. Saturated Methyl Chloride ($CH_3Cl$), R-40
7. Saturated Dichloro-Trifluoro-Ethane ($CF_3CHCl_2$), R–113
8. Saturated Tetrafluoro-Ethane ($CF_3CH_2F$), R-114
9. Saturated Dichloro-Trifluoro-Ethane ($CF_3CHCl_2$), R-123
10. Saturated Tetrafluoro-Ethane ($CF_3CH_2F$), R-134
11. Saturated Ammonia ($NH_3$), R-717
12. Saturated Carbon-Dioxide ($C0_2$), R-744
13. Saturated Sulphur-Dioxide ($S0_2$), R-764
14. Psychrometric Properties of Air
15. Important Properties of Commonly used Refrigerants
16. Recommended Inside Design Conditions for Summer Comfort Cooling
17. Outside Summer Design Conditions for Important Cities in India
18. Recommended Storage Conditions of Perishable Products

Charts

1. Mollier Diagram
2. Pressure-Enthalpy (*p-h*) Chart for Dichloro-Difluoro-Methane ($CCl_2F_2$), R-12
3. Pressure-Enthalpy (*p-h*) Chart for Monochloro-Difluoro-Methane ($CHClF_2$), R-22
4. Pressure-Enthalpy (*p-h*) Chart for Dichloro-Trifluoro-Ethane ($CF_3CHCl_2$), R-123
5. Pressure-Enthalpy (*p-h*) Chart for Tetrafluoro-Ethane ($CF_3CH_2F$), R–134(a)
6. Pressure - Enthalpy (*p-h*) Chart for Carbon-Dioxide ($CO_2$), R-744
7. Pressure-Enthalpy (*p-h*) Chart for Ammonia ($NH_3$), R-717
8. Psychrometric Chart
9. Comfort Chart for Still Air (Air Velocities from 5 to 8 m/min)
10. Friction Chart for Circular Ducts
11. Moody Chart Showing Friction Factors for Fluid Flow in Circular Pipes or Ducts

LOW PRICED STUDENTS' PAPERBACK EDITION




# A Textbook of Thermal Engineering, (LPSPE)

R.S. Khurmi & J.K. Gupta

## About the Book

*"A Textbook of Thermal Engineering"* encompasses all theories of the subject thereby making it a must-read for all students of Mechanical Engineering. Topics such as General Thermodynamic Relations and Variable Specific Heat as well as Turbines (M-pulse, Reaction) and Air Compressors have been dealt in detail.

In addition to the exhaustive topical coverage, numerous solved examples and chapter-end exercises and questions have been added to make the student understand all aspects of concepts explained. A book which has seen, foreseen and incorporated changes in the subject for close to 40 years, it continues to be one of the most sought after texts by the students.

## Salient Features

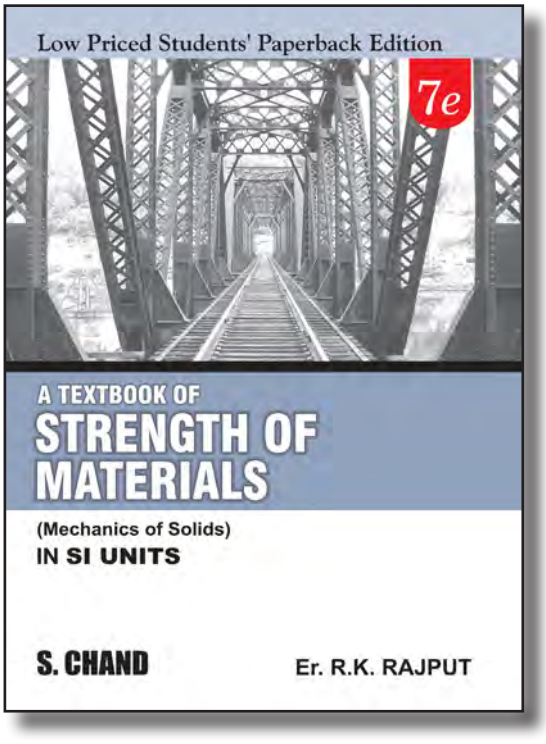
- Divided in 40 chapters, the text amply explains every concept of the subject.
- Close to 850 examples, figures and tables aid to the concepts explained.
- More than 1000 chapter-end questions (objective and subjective) and exercises add to the practice of the students.

**ISBN: 9789355010544 | Price: ₹ 595 | Pages: 900 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Properties of Perfect Gases
3. Thermodynamic Processes of Perfect Gases
4. Entropy of Perfect Gases
5. Kinetic Theory of Gases
6. Thermodynamic Air Cycles
7. Formation and Properties of Steam
8. Entropy of Steam
9. Thermodynamic Processes of Vapour
10. Thermodynamic Vapour Cycles
11. Fuels
12. Combustion of Fuels
13. Steam Boilers
14. Boiler Mountings and Accessories
15. Performance of Steam Boilers
16. Boiler Draught
17. Simple Steam Engines
18. Compound Steam Engines
19. Performance of Steam Engines
20. Steam Condensers
21. Steam Nozzles
22. M-pulse Turbines
23. Reaction Turbines
24. Performance of Steam Turbines
25. Modern Steam Turbines
26. Internal Combustion Engines
27. Testing of Internal Combustion Engines
28. Reciprocating Air Compressors
29. Rotary Air Compressors
30. Performance of Air Compressors
31. Air Motors
32. Gas Turbines
33. Performance of Gas Turbines
34. Introduction to Heat Transfer
35. Air Refrigeration Cycles
36. Vapour Compression Refrigeration System
37. Psychometry
38. Air Conditioning Systems
39. General Thermodynamic Relations
40. Variable Specific Heat

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# A Textbook of Strength of Materials, 7e (Mechanics of Solids) SI Units (LPSPE)

R.K. Rajput

## About the Book

A comprehensive and lucidly written book, *"Strength of Materials"* captures the syllabus of most major Indian Universities and competitive examinations as well. The book discusses everything under solids and its mechanics (such as providing different aspects of stresses) and provides the reader with a deeper interest in the subject – all within aptly formed chapters. It also contains typical examples (useful for students appearing in competitive examinations in particular and other students in general), highlights, objective type questions and a large number of unsolved examples for a complete grasp of the subject.

## Salient Features

- 21 succinctly written chapters which encompass all basic concepts along with 11 Material Testing Experiments.
- More than 1850 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 800 chapter-end questions, University Questions, GATE & UPSC Examination Questions and 11 Material Testing Experiments (with precautions) for practice.
- Free On the Website: Chapter on "Riveted and Welded Joints".

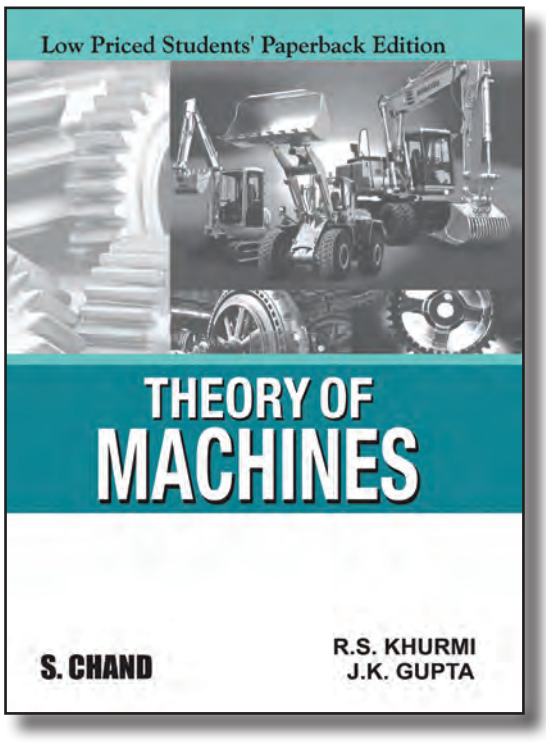
**ISBN: 9789355010704 | Price: ₹ 850 | Pages: 1,312 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Simple Stresses and Strains
2. Principal Stresses and Strains
3. Bending Moments and Shearing Forces
4. Bending Stresses in Beams
5. Combined Direct and Bending Stresses
6. Shearing Stresses
7. Fixed and Continuous Beams
8. Thin Shells
09. Torsion of Circular and Non-circular Shaft
11. Springs
12. Strain Energy and Deflection Due to Shear and Bending
13. Columns and Struts
14. Theories of Failure
15. Stresses Due to Rotation
16. Bending of Curved Bars
17. Centroid and Moment of Inertia
18. Unsymmetrical Bending and Shear Centre
19. Analysis of the Framed Structures
20. Material Testing
21. Universities' Questions (Latest-Selected) With Answers/Solutions,
22. GATE and UPSC Examinations' Questions (Latest-Selected) with Answers/Solutions
- Appendix: Centroid and Moment of Inertia- Important Formulae
- Index

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.

LOW PRICED STUDENTS' PAPERBACK EDITION




# Theory of Machines, 14e (LPSPE)

R.S. Khurmi & J.K. Gupta

## About the Book

*"Theory of Machines"* is designed mainly for the students of mechanical engineering. It focuses on recent developments on the new mechanisms in the field of kinematics. The text seamlessly combines its 40 year experience with the latest methods to be used by students to understand definitions and problems that are solved using elementary methods. The book covers the entire syllabus with a holistic approach.

Contents such as the Kinematics of Motion, Kinetics of Motion, Simple Harmonic Motion, Simple Mechanisms, Velocity in Mechanisms, Turning Moment Diagrams and Flywheel, Steam Engine Valves and Reversing Gears, Torsional Vibrations, Computer Aided Analysis and Synthesis of Mechanisms and Automatic Control formed an important part and have been explained very well.

## Salient Features

- Every important equation is highlighted for the convenience of the student.
- Close to 1400 examples, figures, tables and pictorial depictions aid to the concepts explained.
- More than 800 chapter-end (objective and "Do-You-Know") and exercise questions add to the practice of the students.

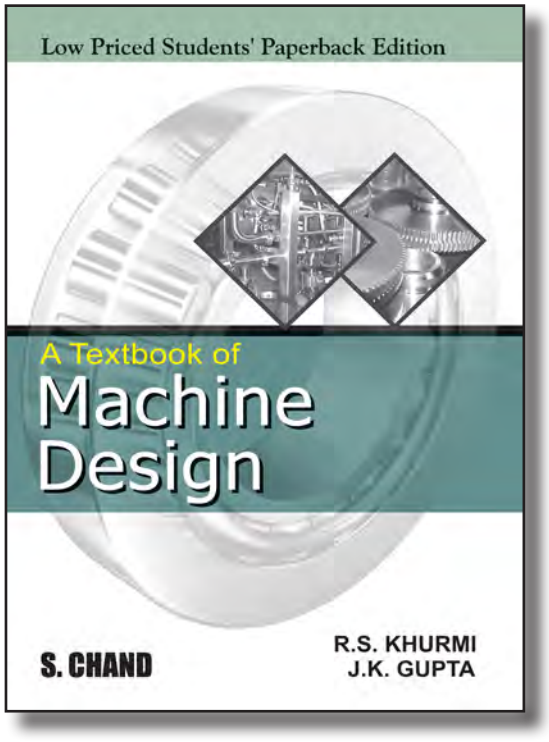
**ISBN: 9789355010780 | Price: ₹ 450 | Pages: 1,088 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Kinematics of Motion
3. Kinetics of Motion
4. Simple Harmonic Motion
5. Simple Mechanisms
6. Velocity in Mechanisms (Instantaneous Centre Method)
7. Velocity in Mechanisms (Relative Velocity Method)
8. Acceleration in Mechanisms
9. Mechanisms with Lower Pairs
10. Friction
11. Belt, Rope and Chain Drives
12. Toothed Gearing
13. Gear Trains
14. Gyroscopic Couple and Processional Motion
15. Inertia Forces in Reciprocating Parts
16. Turning Moment Diagrams and Flywheel
17. Steam Engine Valves and Reversing Gears
18. Governors
19. Brakes and Dynamometers
20. Cams
21. Balancing of Rotating Masses
22. Balancing of Reciprocating Masses
23. Longitudinal and Transverse Vibrations
24. Torsional Vibrations
25. Computer Aided Analysis and Synthesis of Mechanisms
26. Automatic Control

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e-mail: info@schandpublishing.com




# A Textbook of Machine Design, 34e (LPSPE)

R.S. Khurmi & J.K. Gupta

## About the Book

The person who designs the solution for different engineering problems has to go through the various stages of the design process to arrive at an optimal solution. *"A Textbook of Machine Design"* studies these design aspects with relevance to machines. It begins with an introduction to the machine design process and engineering materials (with their properties) and goes on to discuss major topics such as manufacturing considerations in machine design, simple stresses in machine parts and internal combustion engine parts.

A book which has seen, foreseen and incorporated changes in the subject for close to 40 years, it continues to be one of the most sought after texts by the students while also helping professionals as well as aspirants of various entrance examinations to really grasp the core concepts of the subject.

## Salient Features

- Divided in 32 chapters, the text amply explains every concept of the subject.
- More than 1100 examples, figures and tables aid to the concepts explained.
- Close to 900 chapter-end questions (objective and subjective) and exercises add to the practice of the students.

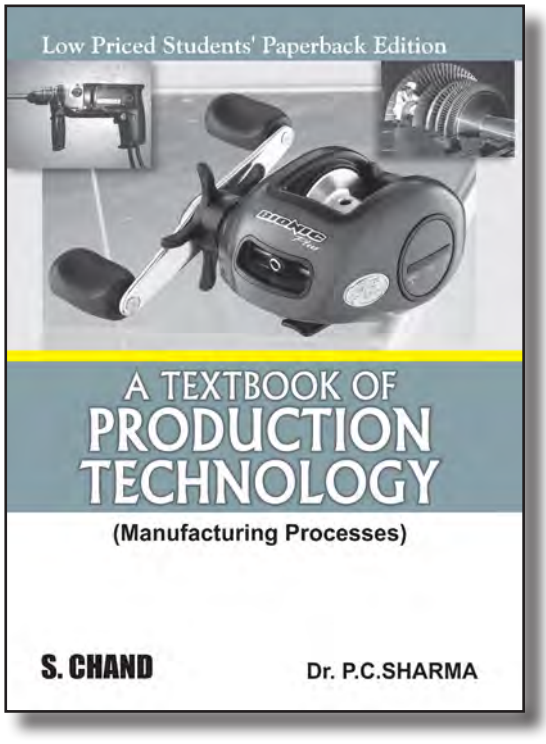
**ISBN: 9789355010834 | Price: ₹ 999 | Pages: 1,248 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Engineering Materials and their Properties
3. Manufacturing Considerations in Machine Design
4. Simple Stresses in Machine Parts
5. Torsional and Bending Stresses in Machine Parts
6. Variable Stresses in Machine Parts
7. Pressure Vessels
8. Pipes and Pipe Joints
9. Riveted Joints
10. Welded Joints
11. Screwed Joints
12. Cotter and Knuckle Joints
13. Keys and Coupling
14. Shafts
15. Levers
16. Columns and Struts
17. Power Screws
18. Flat belt Drives
19. Flat Belt Pulleys
20. V-belt and Rope Drives
21. Chain Drives
22. Flywheel
23. Springs
24. Clutches
25. Brakes
26. Sliding Contact Bearings
27. Rolling Contact Bearings
28. Spur Gears
29. Helical Gears
30. Bevel Gears
31. Worm Gears
32. Internal Combustion Engine Parts
- *Index*

LOW PRICED STUDENTS' PAPERBACK EDITION

LOW PRICED STUDENTS' PAPERBACK EDITION




# A Textbook of Production Technology (Manufacturing Processes) 8e (LPSPE)

P.C. Sharma

## About the Book

For more than 20 years, *"A Textbook of Production Technology"* has been a useful book for undergraduate students of Mechanical Engineering. It is written with the objective of providing comprehensive knowledge about various aspects of materials used in manufacturing process along with the Welding Process, machine tools and ceramic and composite materials.

## Salient Features

- More than 500 tables, figures and examples aid to the understanding of concepts.
- Almost 1300 chapter-end problems provide consistent practice.
- 4 Appendixes include Machine Variables & Related Relations and problems from competitive examinations and question papers (GATE, IES, UPSC).

**ISBN: 9789355010698 | Price: ₹ 725 | Pages: 848 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Engineering Materials and Heat Treatment
3. The Casting Process
4. Mechanical Working of Metals
5. The Welding Process
6. The Machining Process
7. Cutting Tool Materials and Cutting Fluids
8. Machine Tools
9. Unconventional Manufacturing Methods
10. Powder Metallurgy
11. Processing of Plastics
12. Special Processing Methods
13. Ceramic Materials and their Processing
14. Composite Materials and their Processing
15. Tracer Controlled Machine Tools
16. Numerically Controlled Machine Tools
17. Surface Finishing Processes

*Appendix-I: A. Representation of Welds of Drawing IS: 813-1961 & B. Classification of Carbide tips according to their range of application*

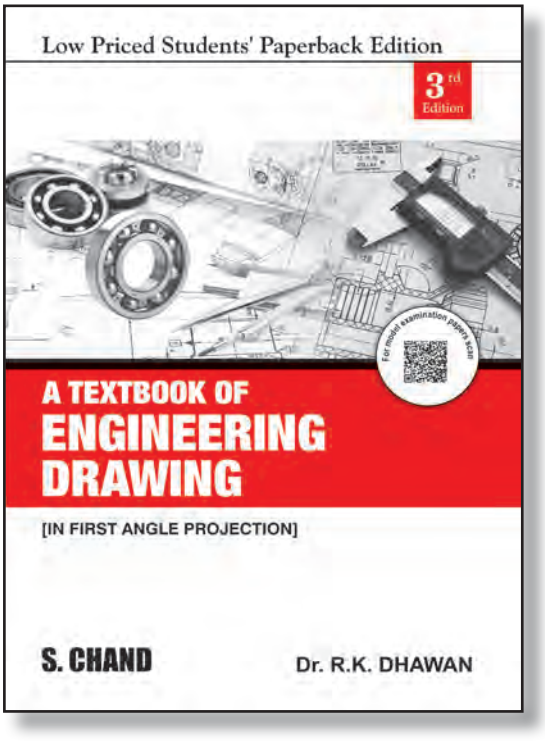
*Appendix-II: Machining Variables and Related Relations*

*Appendix-III: Problems from Competitive Examinations & Question Papers (GATE, IES, IAS)*

*Appendix-IV: Addition Material*

- *Index*

**P.C. Sharma** is LMISME, MISTE and ex. Principal SUSCET, Mohali, Punjab formerly from PEC, Chandigarh.




# A Textbook of Engineering Drawing (In First Angle Projection) 3e (LPSPE)

Dr. R.K. Dhawan

### About the Book

Engineering Drawing completely covers the subject as per AICTE. Pedagogically strong and designed for easy learning, the text amplifies the learning of the student with close to 1300 figures and tables.

### Salient Features

- Six New Chapters: Including Centre of Gravity & Moment of Inertia and Nomography
- Pedagogically Strong: More than 1850 Figures, Tables, Examples/ Cases and Problems for better grasp of the topics | Close to 600 Chapter-end questions and problems for better practice.
- On the Website: 20 model examination papers for further practice.

**ISBN: 9789352837373 | Price: ₹ 550 | Pages: 776 | Size: 6.5" X 9.25" (Paperback)**

### Contents

**Section-I:**

1. Introduction and Drawing Instruments
2. Layout of Drawing Sheet
3. Conventions
4. Lettering
5. Dimensioning
6. Scales
7. Geometrical Constructions

**Section-II:**

1. Loci of Points
2. Conic Sections
3. Plane and Space Curves

**Section-III:**

1. Theory of Projection and Orthographic Projection
2. Orthographic Reading or Interpretation of Views
3. Identification of Surfaces
4. Missing Lines and Views
5. Sectional Views
6. Isometric Projections,
7. Auxiliary Views
8. Freehand Sketching

**Section-IV:**

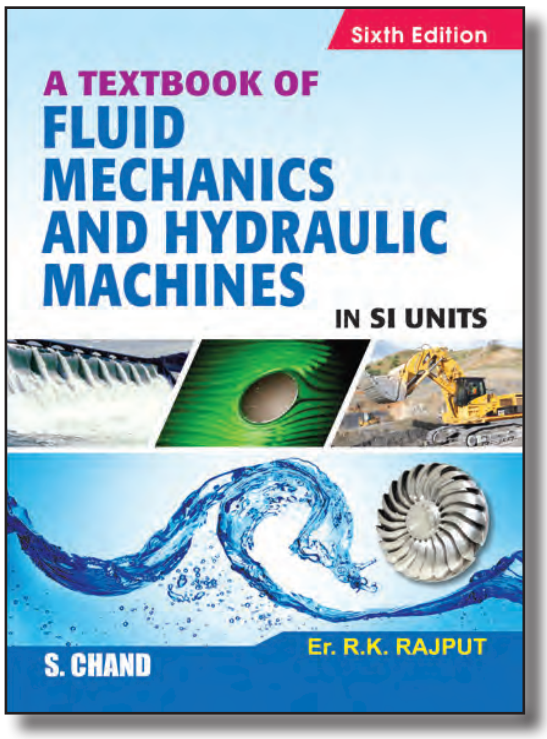
1. Projection of Points
2. Projections and Traces of Straight Lines
3. Projections of Planes
4. Projections of Solids
5. Sections of Solids
6. Intersection of Surfaces
7. Development of Surfaces
8. Perspective
9. Building Drawing
10. Centre of Gravity & Moment of Inertia
11. Nomography
12. Rivets and Riveted Joints
13. Welding
14. Screw Threads
15. Fastenings
16. Computer Aided Drafting

- Model Test Papers

**Dr. R. K. Dhawan,** M.I.E., M.I.S.T.E., is ex Principal Ramgarhia Institute of Engineering & Technology Satnampura, Phagwara (Punjab Technical University, Jalandhar).

LOW PRICED STUDENTS' PAPERBACK EDITION

LOW PRICED STUDENTS' PAPERBACK EDITION




# A Textbook of Fluid Mechanics and Hydraulic Machines (In SI Units), 6e

R.K. Rajput

Multicolour Edition

## About the Book

Divided in two parts, *"A Textbook of Fluid Mechanics and Hydraulic Machines"* is one of the most exhaustive texts on the subject for close to 20 years. For the students of Mechanical Engineering, it can easily be used as a reference text for other courses as well. Important topics ranging from Fluid Dynamics, Laminar Flow and Turbulent Flow to Hydraulic Turbines and Centrifugal pumps are well explained in this book.

A total of 23 chapters (combined both units) followed by two special chapters of 'Universities' Questions (Latest) with Solutions' and 'GATE and UPSC Examinations' Questions with Answers/Solutions' after each unit also make it an excellent resource for aspirants of various entrance examinations.

## Salient Features

- Close to 1900 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 1200 chapter-end questions for practice.
- University Questions, GATE & UPSC Examination Questions and Laboratory Experiments at the end of both parts add to the practice quotient of the students.

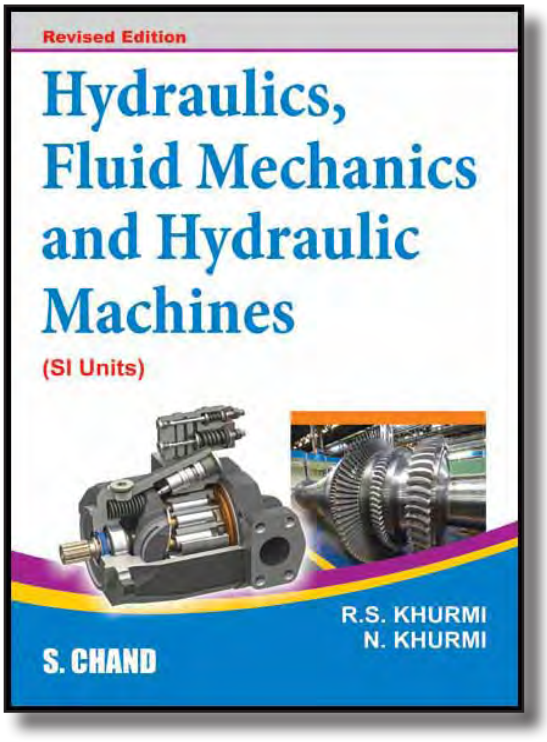
**ISBN: 9789385401374 | Code: 1010B00185 | Price: ₹ 1495 | Pages: 1,592 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Part-I: Fluid Mechanics
1. Properties of Fluids
2. Pressure Measurement
3. Hydrostatic Forces on Surfaces
4. Buoyancy and Floatation
5. Fluid Kinematics
6. Fluid Dynamics
7. Dimensional and Model Analysis
8. Flow through Orifices and Mouthpieces
9. Flow Over Notches and Weirs
10. Laminar Flow
11. Turbulent Flow in Pipes
12. Flow through Pipes
13. Boundary Layer Theory
14. Flow around Submerged Bodies —Drag and Lift
15. Compressible Flow
16. Flow in Open Channels

Part-II: Hydraulic Machines
1. Impact of Free Jets
2. Hydraulic Turbines
3. Centrifugal Pumps
4. Reciprocating Pumps
5. Miscellaneous Hydraulic Machines
6. Water Power Development
7. Fluidics
8. *Universities' Questions (Latest) with Solutions*
9. *"GATE" and "UPSC" Examinations' Questions with Answers/Solutions (Latest-Selected)*
- *Laboratory Practical*
- *Index*

**R.K. Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




# Hydraulics, Fluid Mechanics and Hydraulic Machines (SI Inits) 20e

R.S. Khurmi & N. Khurmi

Multicolour Edition

## About the Book

For close to 50 years, *"Hydraulics, Fluid Mechanics and Hydraulic Machines"* has been providing a comprehensive coverage of fluid mechanics and hydraulics for various engineering courses. This text has been revised to incorporate SI units throughout the book. It starts with an overview, then covers Hydrostatics, study and measurement of Fluiad Pressure and introduces Hydrokinematics. The book covers Floating Bodies and their Equilibrium, applications of Bernoulli's equation, Flow through Orifices, Notches, Weirs, and Simple Pipes. It also covers how fluids flow through Open Channels and examines both uniform and non-uniform flows.

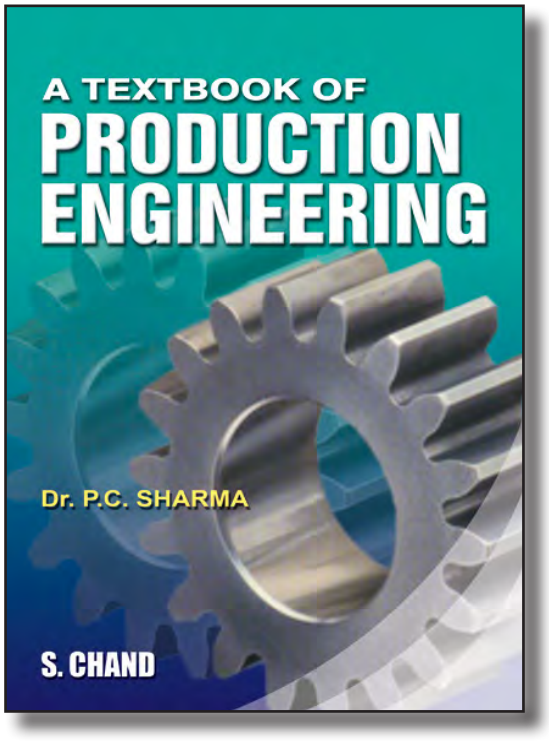
## Salient Features

- Divided in 39 chapters, the text succinctly explains every concept of the subject.
- More than 900 examples, figures and tables aid to the concepts explained.
- More than 800 in-text exercise questions and chapter-end questions add to the practice of the students.

**ISBN: 9788121901628 | Code: 1010B00026 | Price: ₹ 850 | Pages: 728 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction and Properties of Fluids
2. Fluid Pressure and its Measurement
3. Hydrostatics
4. Applications of Hydrostatics
5. Equilibrium of Floating Bodies
6. Hydro-Kinematics (or Fluid Kinematics)
7. Hydro-Dynamics (or Fluid Dynamics) (Bernoulli's & Euler's Equations and Their Applications)
8. Flow Through Orifices (Measurement of Discharge)
9. Flow Through Orifices (Measurement of Time)
10. Flow Through Mouthpieces
11. Flow Over Notches
12. Flow Over Weirs
13. Flow Through Simple Pipes
14. Flow Through Compound Pipes
15. Flow Through Nozzles
16. Uniform Flow Through Open Channels
17. Non-Uniform Flow Through Open Channels
18. Viscous Flow (Laminar Flow-I)
19. Viscous Resistance (Laminar Flow-II)
20. Fluid Masses Subjected to Acceleration
21. Vortex Flow
22. Mechanics of Compressible Flow
23. Compressible Flow of Fluids
24. Flow Around Immersed Bodies (Drag & Lift) and Boundary Layer Theory
25. Dimensional Analysis
26. Model Analysis (Undistorted Models)
27. Model Analysis (Distorted Models)
28. Non-Dimensional Constants
29. Impact of Jets
30. Jet Propulsion
31. Water Wheels
32. Impulse Turbines
33. Reaction Turbines
34. Performance of Turbines
35. Centrifugal Pumps
36. Reciprocating Pumps
37. Performance of Pumps
38. Pumping Devices
39. Hydraulic Systems (Miscellaneous Hydraulic Machines)
- *Index*




# A Textbook of Production Engineering, 11e

P.C. Sharma

## About the Book

For more than 30 years, the book has been a very useful resource for the students for undergraduate students of Mechanical Engineering. Divided in 27 chapters, it is written with the objective of providing comprehensive knowledge about various aspects of the subject from process and production planning and control to manufacturing systems and automation thereby providing the student with a holistic idea.

## Salient Features

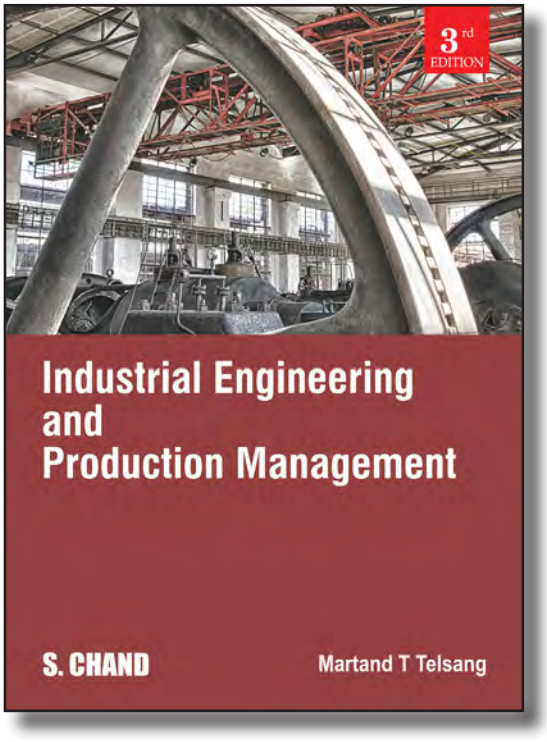
- Close to 1000 tables, figures and examples aid to the understanding of concepts.
- More than 1000 chapter-end problems provide consistent practice.
- 5 Appendixes include Process Planning Sheets, Gear Manufacturing and problems from competitive examinations and question papers (GATE, IES, UPSC).

**ISBN: 9788121901116 | Code: 1010B00038 | Price: ₹ 895 | Pages: 992 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Jigs and Fixtures
2. Press Tool Design
3. Forging Die Design
4. Cost Estimation
5. Economics of Tooling
6. Process Planning
7. Tool Layout for Capstans and Turrets
8. Tool Layout for Automatics
9. Limits, Tolerances and Fits
10. Gauges and Gauge Design
11. Surface Finish
12. Measurement
13. Analysis of Metal Forming Process
14. Theory of Metal Cutting
15. Design and Manufacture of Cutting Tools
16. Gear Manufacturing
17. Thread Manufacturing
18. Design of Machine Tool Elements and Machine Tool Testing
19. Machine Tool Installation and Maintenance
20. Design of Product for Economical Production
21. Statistical Quality Control
22. Kinematics of Machine Tools
23. Production Planning and Control
24. Manufacturing Systems and Automation
25. Computer Integrated Manufacturing
26. Plant Layout
27. Production and Productivity
- *Appendices-5 (inclusive of Problems from Competitive Examinations)*

**P.C. Sharma** is LMISME, MISTE and ex. Principal SUSCET, Mohali, Punjab formerly from PEC, Chandigarh.




# Industrial Engineering and Production Management, 3e

Martand T Telsang

## About the Book

For close to 20 years, *"Industrial Engineering and Production Management"* has been a successful text for students of Mechanical, Production and Industrial Engineering while also being equally helpful for students of other courses including Management.

Divided in 6 parts and 52 chapters, the text combines theory with examples to provide in-depth coverage of the subject.

## Salient Features

- **TWENTY FOUR NEW** Chapters on major topics such as but not limited to: Job Design, Operations Strategy, Process/Capacity Design, Simulation, Supply Chain Network/Coordination/Performance Drivers, Manufacturing (Lean/Agile/ Digital/ Sustainable/ Reconfigurable/ Cellular) and Remanufacturing
- **Free On the Website:** FIVE NEW Chapters on "Competitive Strategies (Games Theory)", "Lean and Agile Supply Chain", "Information Technologies and Supply Chain", "Materials Management" and "Product and System Reliability"
- More than 700 figures, tables and references aid to the concepts explained and close to 600 chapter-end questions and problems reinforce the concepts by providing adequate practice.

**ISBN: 9789352533794 | Price: ₹ 950 | Pages: 1,160 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**Section-I: Work System Design**

1. Introduction to Industrial Engineering
2. Productivity & Production Performance
3. Work-Study
4. Method Study
5. Time Study (Work Measurement)
6. Job Design
7. Value Engineering
8. Job Evaluation and Merit Rating
9. Wages and Incentives
10. Ergonomics

**Section-II: Production and Operations System Design**

11. Production and Operations Management: Introduction
12. Types of Production System
13. Operations Strategy
14. Product Design
15. Process Planning
16. Capacity Planning
17. Plant Location
18. Plant Layout
19. Material Handling

**Section-III: Production Planning & Control**

20. Production Planning and Control
21. Demand Forecasting
22. Aggregate Planning
23. Inventory Control
24. Material Requirement Planning (MRP)
25. Production Scheduling and Control
26. Maintenance Management
27. Project Scheduling with CPM and PERT

**Section-IV: Quantitative Techniques for Operations**

28. Decision Theory
29. Replacement Models
30. Queuing Models
31. Linear Programming Problems (LPP)
32. Simulation Technique
33. Production Cost Concepts and Break-even Analysis

**Section-V: Supply Chain Management**

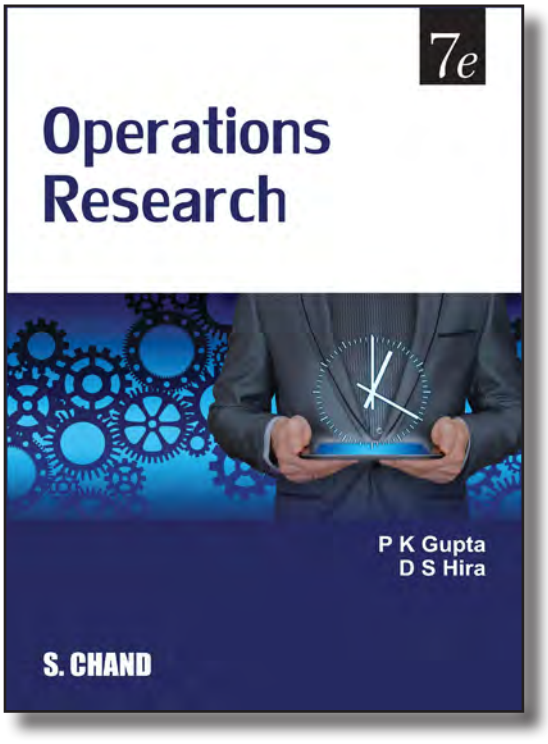
34. Understanding Supply Chain
35. Supply Chain Performance Drivers and Metrics
36. Supply Chain Network Design
37. Supply Chain Coordination and Bullwhip Effect
38. Strategic Alliances in Supply Chain
39. Supply Chain Integration

**Section-VI: Advances and Trends in Operations Management**

40. Lean Manufacturing
41. Just in Time Manufacturing
42. Agile Manufacturing
43. Digital Manufacturing
44. Sustainable Manufacturing
45. Reconfigurable Manufacturing Systems
46. Remanufacturing
47. Materials Management

- Chapter 48–52: Available on *www.schandpublishing.com*

**Martand T Telsang** is Dean Academics, Sanjay Ghodawat University Kolhapur.




# Operations Research, 7e

Prem Kumar Gupta & D.S. Hira

## About the Book

Comprehensively written in a manner that suites the students of Mechanical Engineering and Commerce & Management, *"Operations Research"* transmutes deftly into a resource or a reference text for the students of statistics and mathematics or aspirants of various entrance examinations including UPSC.

Coverage of popular topics such as Linear Programming, Probability Theory and Queuing Models are supplemented with numerous examples, tables and figures which are then followed by exercises thereby providing the assurance to fulfil every requirement of understanding of the student.

A book which has seen, foreseen and incorporated changes in the subject for more than 40 years, it continues to be one of the most sought after texts by the students.

## Salient Features

- 16 chapters succinctly cover every crucial concept of the subject.
- Close to 2300 examples, figures and tables aid to the concepts explained.
- 1800+ exercise questions enhance the practice quotient of the book.

**ISBN: 9788121902816 | Code: 1010E00087 | Price: ₹ 995 | Pages: 1,512 | Size: 6.5" X 9.25" (Paperback)**

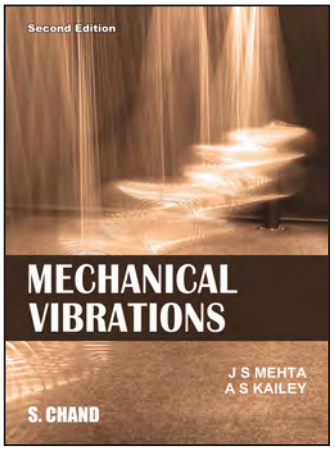
## Contents

1. Basics of Operations Research
2. Liner Programming
3. The Transportation Model
4. The Assignment Model
5. Sequencing Models and Related Problems
6. Advanced Topics In Liner Programming
7. Dynamic Programming
8. Probability Theory
9. Decision Theory, Game, Investment Analysis and Annuity
10. Queuing Models
11. Replacement Models
12. Inventory Models
13. Simulation
14. Network Analysis In Project Planning (PERT And CPM)
15. Statistical Quality Control.
16. Non Liner Programming

- *Appendices:*
  *A: Review of Vectors and matrices*
  *B: Derivation of Poisson Distribution*
- *Table C-1: Random Numbers Table*
- *Table C-2: Proportion of total area under the normal curve from – ∞ to z*
- *Bibliography*
- *Index*

**P.K. Gupta** is Former Assistant Professor, PEC Institute of Engineering and Technology, Chandigarh.

**D.S. Hira,** Director General, Swami Vivekanand Group of Institute, Patiala.




## Mechanical Vibrations, 2e

J.S. Mehta & A.S. Kailey

### About the Book

Written specifically for the students of Mechanical Engineering, *"Mechanical Vibrations"* is a succinctly written textbook. Without being verbose, the textbook delves into all concepts related to the subject and deals with them in a laconic manner. Concepts such as Freedom Systems, Vibration Measurement and Transient Vibrations have been treated well for the student to get profounder knowledge in the subject.

### Salient Features

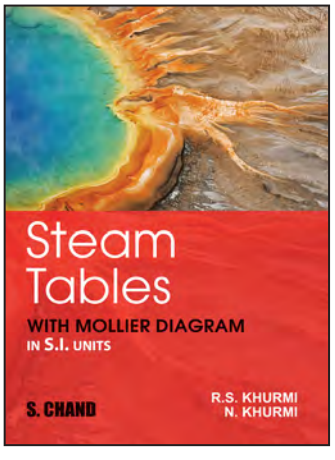
- A new chapter on "Basics of Sound and Noise" has been added which will be helpful to understand sound intensity, pressure and power besides also providing an in-depth understanding of sound and noise strategy and control.
- Concepts such as Natural Frequency, Damping Ratio, Logarithmic Decrement, Lagrange's Equations and Laplace Transformation among others have been applied in various in-text examples to accentuate the topic at hand and also provide the learners with practice to further their understanding.
- Learning Objectives, aptly places figures and examples (close to 500) and chapter-end questions (close to 300) embellish the process of understanding of each concept of the text.

**ISBN: 9789352533824 | Code: 9789352533824 | Price: ₹ 415 | Pages: 392 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Concepts and Terminology, 2. Undamped Free Vibrations of Single Degree of Freedom Systems, 3. Damped Free Vibrations of Single Degree of Freedom Systems, 4. Forced Vibrations of Single Degree of Freedom System, 5. Two Degree of Freedom Systems, 6. Multi Degree of Freedom Systems, 7. Continuous Systems, 8. Whirling of Shafts, 9. Vibration Measurement, 10. Transient Vibrations, 11. Basics of Sound and Noise,• *Index*

**J.S. Mehta** is Assistant Professor, Mechanical Engineering Department, UIET, PU, Chandigarh.
**A.S. Kailey** is Assistant Professor, Mechanical Engineering Department, B.B.S.B.E.C., Fatehgarh Sahib.




## Steam Tables
## With Mollier Diagrams in S.I. Units

R S Khurmi & N Khurmi

### About the Book

The objective of *"Steam Tables: With Mollier Diagrams in S.I. Units"* is to present the various properties of water and steam in a most concise form. This has been a useful text for the students of Mechanical Engineering for more than 30 years.

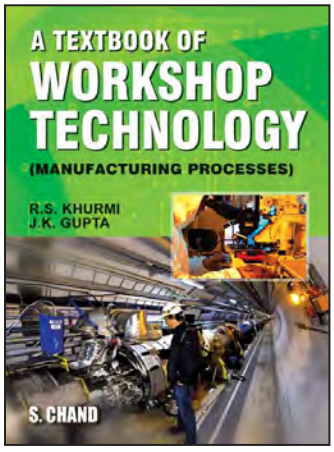
### Salient Features

- Introduction to Steam Tables (Temperature) and Mollier Diagrams provides brief recapitulation of the topic.

**ISBN: 9788121906548 | Code: 1010A00044 | Price: ₹ 110 | Pages: 32 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Rules for S.I. Units Introduction to Steam Tables (Temperature) and Mollier Diagrams , 1. Saturated Water and Steam (Temperature) Tables, 2. Saturated Water and Steam (Pressure) Tables, 3. Specific Volume of Superheated Steam, 4. Specific Enthalpy of Superheated Steam, 5. Specific Entropy of Superheated Steam, 6. Specific Volume, Enthalpy and Entropy of Supercritical Steam




## A Textbook of Workshop Technology (Manufacturing Processes) 16e

R.S. Khurmi & J.K. Gupta

### About the Book

*"A Textbook of Workshop Technology (Manufacturing Processes)"* is an all-inclusive text for students as it takes a detailed look at all concepts of the subject. Distributed evenly in 26 chapters, important focusses are laid on metals, alloys, equipment and fittings amongst others.

Each chapter contains solved examples supported by exercises and chapter-end questions which aid to the understanding of the concepts explained. A book which has seen, foreseen and incorporated changes in the subject for close to 40 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

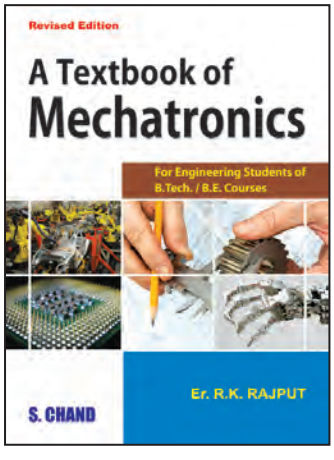
### Salient Features

- 26 chapters provide an in-depth coverage of every important concept in the subject.
- More than 600 figures and tables aid to the concepts explained.
- Close to 700 chapter-end questions add to the practice of the students.

**ISBN: 9788121908689 | Code: 6010B00155 | Price: ₹ 610 | Pages: 560 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction, 2. Industrial Safety, 3. Fundamentals of Metals and Alloys, 4. Properties, Testing and Inspection of Metals, 5. Ferrous Metals and Alloys, 6. Non-Ferrous Metals and Alloys, 7. Heat Treatment of Metals and Alloys, 8. Mechanical Working of Metals, 9. Carpentry and Joinery, 10. Pattern Making, 11. Foundry Tools and Equipment, 12. Moulding and Core Making, 13. Special Casting Processes, 14. Smithy and Forging, 15. Welding, 16. Bench Work and Fitting, 17. Sheet Metal Work, 18. Rivets and Screws, 19. Limit System and Surface Finish, 20. Measuring Instruments and Gauges, 21. Quality Control, 22. Powder Metallurgy, 23. Plastics, 24. Metallic and Non-metallic Coatings, 25. Pipes and Pipe Fittings, 26. Machine Tools (Introduction) • *Index*




## A Textbook of Mechatronics, 4e

R.K. Rajput

### About the Book

*"A Textbook of Mechatronics"* is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC.

Divided into 10 chapters, the book delves into the subject beginning from Basic Concepts and goes on to discuss elements of CNC Machines and Robotics. The book also becomes useful as a question bank for students as it offers university questions with answers.

### Salient Features

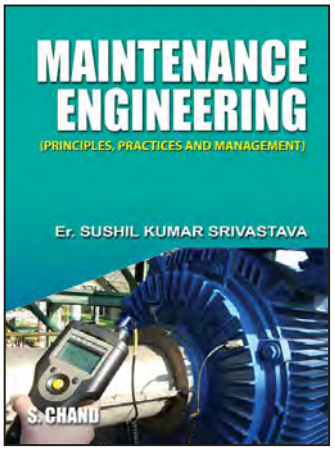
- Special Introduction to S.I. Units and Conversion Factors are followed by 10 succinctly written chapters which encompass all concepts. A special section on university questions with answers and 40 Appendixes provide additional support to the theory explained.
- More than 700 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 850 chapter-end Theoretical Questions, Objective Type Question and Unsolved Examples provide rigorous practice.

**ISBN: 9788121928595 | Code: 1010D00343 | Price: ₹ 799 | Pages: 816 | Size: 6.5" X 9.25" (Paperback)**

### Contents

*Introduction to SI Units and Conversion Factors,* 1. Introduction to Mechatronics, Measurement Systems and Control Systems, 2. Sensors and Transducers, 3. Signal Conditioning, Data Acquisition, Transmission and Presentation/Display, 4. Actuators - Mechanical, Electrical, Hydraulic, Pneumatic, 5. System Models and Controllers, 6. Basic and Digital Electronics, 7. Microprocessors, 8. Design of Mechatronic Systems, 9. Elements of CNC Machines, 10. Robotics • *Universities' Questions with Answers* • *Appendix-A: Basic Mechanical Concepts* • *Appendix-B: Basic Electrical Concepts* • *Index*

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## Maintenance Engineering (Principles, Practices and Management)

Sushil Kumar Srivastava

### About the Book

For close to 20 years, *"Maintenance Engineering"* has been a resourceful textbook for the students of Mechanical Engineering, Maintenance Engineering, Maintenance Technology and Maintenance Management. Written lucidly, the book is divided in 16 parts and delves into all concepts in a rational format – beginning with the Overview and going on to explain Maintenance Technologies, TPM, HRD for Maintenance Personnel and Maintenance Engineer and Maintenance Troubleshooting among other concepts.

### Salient Features

- Systematic approach to each of the chapters help capture the subject in its entirety without being too edifying in nature.
- More than 200 within-chapter and chapter-end features aid to the understanding of concepts.

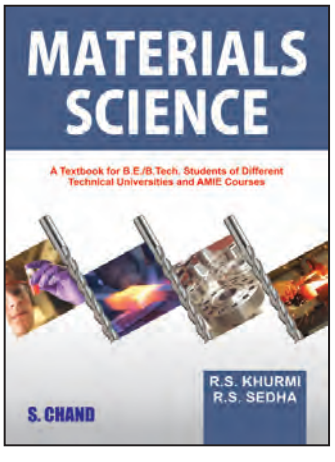
**ISBN: 9788121926447 | Code: 1010C00317 | Price: ₹ 425 | Pages: 320 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction and Maintenance Overview, 2. Productivity Quality Reliability and Maintainability (PQRM), 3. Maintenance and Repair Jobs and Technologies, 4. Defect /Failure List Generation and Failure Analysis, 5. Maintenance Strategies/Types/Systems, 6. Condition Monitoring (CM), 7. Maintenance Planning and Scheduling, 8. Codification, Cataloguing and System Approach, 9. Computerized Maintenance Management System (CMMS), 10. Total Productive Maintenance (TPM), 11. Other Concepts of Maintenance Systems /Strategies, 12. Maintenance Organization, 13. Maintenance Effectiveness, Performance Evaluation /Indices and Audit, 14. Maintenance Budgeting, Costing and Cost Control, 15. Training (HRD) for Maintenance Personnel, 16. Maintenance Engineer and Maintenance Troubleshooting • *Bibliography*

**Sushil Kumar Srivastava** is MIE, Member – FPS and Director, OTMEC, Durgapur (West Bengal).

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## Materials Science, 5e

R.S. Khurmi & R.S. Sedha

### About the Book

*"Materials Science"* is a go-to textbook for the students of engineering for understanding the fundamental concepts of the subject. A lucidly and well-planned text, it deals with every concept individually and provides a holistic view to every concept.

A book which has seen, foreseen and incorporated changes in the subject for more than 30 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

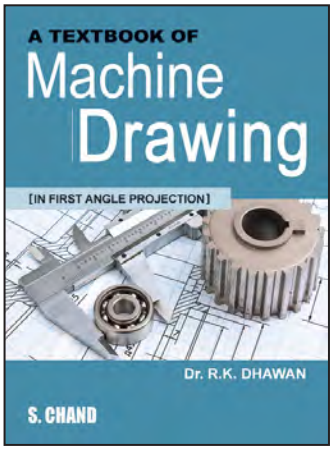
### Salient Features

1. 4 parts dedicatedly explain all important concepts of the subject.
2. Close to 250 questions specifically for the students of AMIE courses.
3. More than 400 within-chapter and chapter-end features to add to the learning of concepts.

**ISBN: 9788121901468 | Code: 1010C00109 | Price: ₹ 425 | Pages: 384 | Size: 6.5" X 9..5" (Paperback)**

### Contents

Part-I: Science of Metals: 1. Introduction, 2. Structure of Atoms, 3. Crystal Structure, 4. Bonds in Solids, 5. Electron Theory of Metals, Part-II: Mechanical Behaviour of Metals: 6. Mechanical Properties of Metals, 7. Mechanical Tests of Metals, 8. Deformation of Metals, 9. Fracture of Metals, Part-III: Engineering Metallurgy: 10. Iron-Carbon Alloy System, 11. Heat Treatment, 12. Corrosion of Metals, Part-IV: Engineering Materials: 13. Ferrous and Non-Ferrous Alloys, 14. Organic Materials, 15. Composite Materials and Ceramics, 16. Semiconductors, 17. Insulating Materials, 18. Magnetic Materials • *Appendix-I: Value of Physical Constants* • *Appendix-II: Physical Properties of Selected Metals* • *Index*




## A Textbook of Machine Drawing (In First Angle Projection), 2e

Multicolour Edition

R.K. Dhawan

### About the Book

Written for all students of engineering, *"A Textbook of Machine Drawing (In First Angle Projection)"* provides knowledge in a lucid (sectional) format for easier comprehension of new (1st year) students.

Filled with figures and in-text problems, the text successfully helps the student not only comprehend but practice and retain the understanding of otherwise difficult concepts. A book which has seen, foreseen and incorporated changes in the subject for more than 20 years, it continues to be one of the most sought after texts by the students.

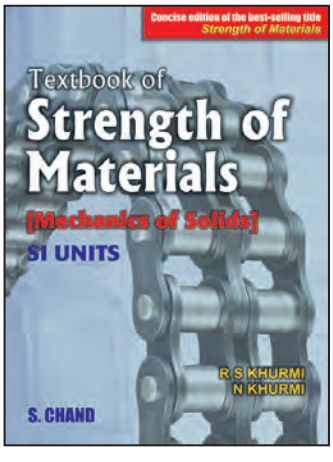
### Salient Features

- The text is divided in 3 parts and 35 chapters – each for a critical concept of the subject. Apart from that, 12 book-end Model Test Papers assess the overall understanding of the subject.
- Numerous notes (highlighted) are strategically placed throughout the text to supplement the concepts explained
- More than 1850 figures, solved problems, tables, cases and chapter-end questions add rigour to a lucidly written text.

**ISBN: 9788121908245 | Code: 1010F00148 | Price: ₹ 910 | Pages: 744 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Section-I: 1. Introduction and Drawing Instruments, 2. Layout of Drawing Sheet, 3. Conventions, 4. Lettering, 5. Dimensioning, 6. Scales, Section-II: 1. Theory of Projection and Orthographic Projection, 2. Orthographic Reading or Interpretation of Views, 3. Identification of Surfaces, 4. Missing Lines and Views, 5. Sectional Views, 6. Isometric Projections, 7. Auxiliary Views, 8. Freehand Sketching, 9. Sections of Solids, Section-III: 1. Production Drawings, 2. Limits, Fits and Machining Symbols, 3. Rivets and Riveted Joints, 4. Welding, 5. Screw Threads, 6. Fastenings, 7. Keys, Cutters and Joints, 8. Shaft Couplings, 9. Bearings, 10. Brackets, 11. Pulleys, 12. Pipe Joints, 13. Steam Engine Parts, 14. I.C. Engine Parts, 15. Valves, 16. Gears, 17. Cams, 18. Jigs and Fixtures, 19. Miscellaneous Drawings, 20. Computer Aided Drafting • *Model Test Papers*




## Textbook of Strength of Material, Concise Edition (Mechanics of Solids)

Multicolour Edition

R.S. Khurmi & N Khurmi

### About the Book

*"Strength of Materials: Mechanics of Solids in SI Units"* is an all-inclusive text for students as it takes a detailed look at all concepts of the subject. Distributed evenly in 32 chapters, important focusses are laid on stresses, strains, inertia, force, beams, joints and shells amongst others.

Each chapter contains solved examples supported by exercises and chapter-end questions which aid to the understanding of the concepts explained. A book which has seen, foreseen and incorporated changes in the subject for close to 50 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

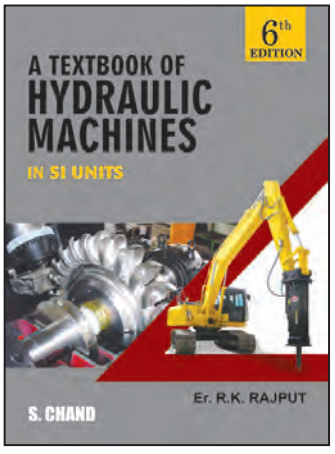
### Salient Features

- 32 chapters provide an in-depth coverage of every important concept in the subject.
- Close to 1000 examples, figures and tables aid to the concepts explained.
- Close to 600 in-text exercise questions and chapter-end questions add to the practice of the students.

**ISBN: 9789385401954 | Code: 1010000661 | Price: ₹ 795 | Pages: 752 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction, 2. Mechanical Properties of Materials (Stress-Strain Diagram), 3. Simple Stresses and Strains, 4. Stresses and Strains in Bars of Varying Sections, 5. Stresses and Strains in Statically Indeterminate Structures, 6. Thermal Stresses and Strains, 7. Elastic Constants, 8. Principal Stresses and Strains, 9. Strain Energy and Impact Loading, 10. Centre of Gravity, 11. Moment of Inertia, 12. Analysis of Perfect Frames (Analytical Method), 13. Bending Moment and Shear Force, 14. Bending Stresses in Simple Beams, 15. Bending Stresses in Composite Beams, 16. Shearing Stresses in Beams, 17. Direct and Bending Stresses, 18. Deflection of Beams, 19. Deflection of Cantilevers, 20. Deflection by Moment Area Method, 21. Torsion of Circular Shafts, 22. Springs, 23. Thin Cylindrical and Spherical Shells, 24. Thick Cylindrical and Spherical Shells, 25. Columns and Struts, 26. Propped Cantilevers and Beams, 27. Fixed Beams, 28. Theorem of Three Moments, 29. Strain Energy & Deflection Due to Bending & Shear (and Castigliano's Theorem), 30. Bending of Curved Bars, 31. Theories of Failure, 32. Testing of Materials • *Appendix* • *Index*




## A Textbook of Hydraulic Machines (SI Units), 6e

R.K. Rajput

Multicolour Edition

### About the Book

Written primarily for the students of Civil and Mechanical Engineering, *"A Textbook of Hydraulic Machines"* has been written in lucidly and captures the essence in an apt and non-repetitive manner. Aided by a number of solved problems, including typical examples from examination point of view, the book has been a benchmark in the subject for close to 20 years.

### Salient Features

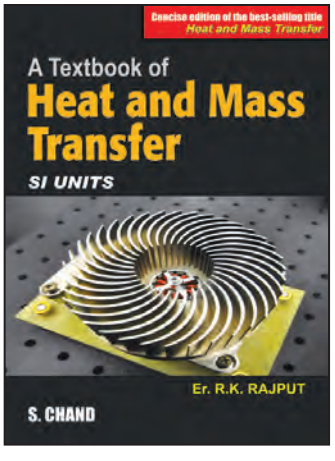
- The text tackles all major concepts of the subject in a concise but meticulous manner.
- 450+ Examples, Figures and chapter-end highlights aid to the understanding of students.
- 350+ chapter-end MCQs, Theoretical Questions and Unsolved Examples as well as book-end GATE and UPSC examination questions with answers are provided for practice.

**ISBN: 9789385676314 | Code: 1010C00194 | Price: ₹ 795 | Pages: 472 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Impact of Free Jets, 2. Hydraulic Turbines, 3. Centrifugal Pumps, 4. Reciprocating Pumps, 5. Miscellaneous Hydraulic Machines, 6. Water Power Development, 7. Fluidics, 8. Universities' Questions (Latest) with "Solutions", 9. GATE and UPSC Examinations' Questions with Answers/Solutions (Latest-Selected) • *Laboratory Practicals* • *Index*

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## A Textbook of Heat and Mass Transfer (SI Units), Concise Edition

R.K. Rajput

Multicolour Edition

### About the Book

*"A Textbook of Heat and Mass Transfer"* is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC.

Divided into 4 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

### Salient Features

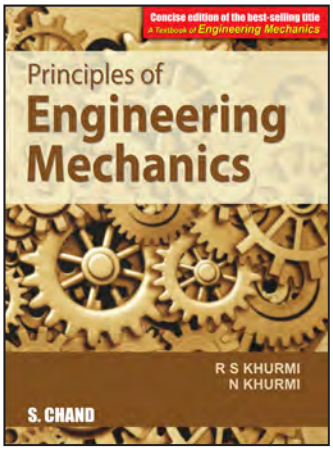
- Introductory chapter explains all basic theories of the subject followed by 10 succinctly written chapters which encompass all basic concepts.
- Close to 950 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 500 chapter-end Theoretical Questions, Unsolved Examples and book-end MCQs provide rigorous practice.

**ISBN: 9789385401930 | Code: 1010000659 | Price: ₹ 750 | Pages: 776 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Basic Concepts, Part-I: Heat Transfer by "Conduction": 2. "Conduction" Heat Transfer at Steady State – One Dimension, 3. Conduction Heat Transfer at Steady State – Two Dimensions and Three Dimensions, 4. Heat Conduction-Transient (Unsteady State), Part-II: Heat Transfer by "Convection": 5. Heat Transfer By "Forced Convection", 6. Heat Transfer By "Free Convection", 7. Boiling and Condensation, 8. Heat Exchangers, Part-III: Heat Transfer by "Radiation": 9. Heat Transfer By Radiation, Part-IV: Mass Transfer: 10. Mass Transfer • *Multiple-Choice Questions Bank with Answers* • *Index*

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## Principles of Engineering Mechanics, Concise Edition

Multicolour Edition

R.S. Khurmi & N. Khurmi

### About the Book

*"A Textbook of Engineering Mechanics"* is a must-buy for all students of engineering as it is a lucidly written textbook on the subject with crisp conceptual explanations aided with simple to understand examples.

Important concepts such as Moments, Inertia, Motion (Linear, Projectile, Harmonic and Connected Bodies), as well as Work, Power and Energy are explained with ease for the learner to really grasp the subject in its entirety.

A book which has seen, foreseen and incorporated changes in the subject for 50 years, it continues to be one of the most sought after texts by the students.

### Salient Features

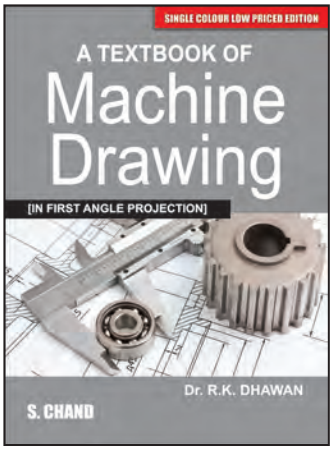
- 33 chapters evenly explain all major theories of the subject.
- Close to 1000 figures, tables and examples aid to the concepts explained.
- Close to 650 in-text exercise questions and chapter-end questions for practice.

**ISBN: 9789385401947 | Code: 1010000660 | Price: ₹ 725 | Pages: 688 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction, 2. Forces, 3. Moments, 4. Parallel Forces and Couples, 5. Equilibrium of Forces, 6. Centre of Gravity, 7. Moment of Inertia, 8. Principles of Friction, 9. Applications of Friction, 10. Principles of Lifting Machines, 11. Simple Lifting Machines, 12. Support Reactions, 13. Analysis of Perfect Frames (Analytical Method), 14. Virtual Work, 15. Linear Motion, 16. Motion Under Variable Acceleration, 17. Relative Velocity, 18. Projectile Motion, 19. Motion of Rotation, 20. Combined Motion of Rotation and Translation, 21. Simple Harmonic Motion, 22. Laws of Motion, 23. Motion of Connected Bodies, 24. Helical Springs and Pendulums, 25. Collision of Elastic Bodies, 26. Motion along a Circular Path, 27. Work, Power and Energy, 28. Mass Moment of Inertia, 29. Kinetics of Motion of Rotation, 30. Transmission of Power by Belts and Ropes, 31. Transmission of Power by Gear Trains, 32. Work-Energy Method, 33. Forces in Space (In Vector Form) • *Appendix* • *Index*

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## A Textbook of Machine Drawing (In First Angle Projection)

R.K. Dhawan

### About the Book

Written for all students of engineering, *"A Textbook of Machine Drawing (In First Angle Projection)"* provides knowledge in a lucid (sectional) format for easier comprehension of new (1st year) students.

Filled with figures and in-text problems, the text successfully helps the student not only comprehend but practice and retain the understanding of otherwise difficult concepts. A book which has seen, foreseen and incorporated changes in the subject for more than 20 years, it continues to be one of the most sought after texts by the students.

### Salient Features

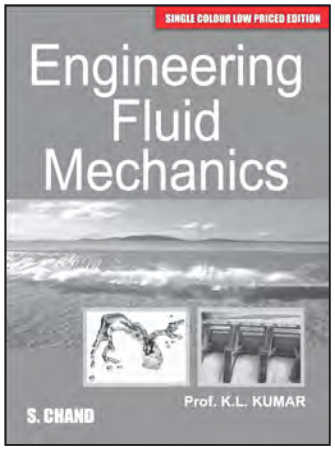
- The text is divided in 3 parts and 35 chapters – each for a critical concept of the subject. Apart from that, 12 book-end Model Test Papers assess the overall understanding of the subject.
- Numerous notes (highlighted) are strategically placed throughout the text to supplement the concepts explained
- More than 1850 figures, solved problems, tables, cases and chapter-end questions add rigour to a lucidly written text.

**ISBN: 9789385676499 | Code: 1010000667 | Price: ₹ 750 | Pages: 746 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Section-I: 1. Introduction and Drawing Instruments, 2. Layout of Drawing Sheet, 3. Conventions, 4. Lettering, 5. Dimensioning, 6. Scales, Section-II: 1. Theory of Projection and Orthographic Projection, 2. Orthographic Reading or Interpretation of Views, 3. Identification of Surfaces, 4. Missing Lines and Views, 5. Sectional Views, 6. Isometric Projections, 7. Auxiliary Views, 8. Freehand Sketching, 9. Sections of Solids, Section-III: 1. Production Drawings, 2. Limits, Fits and Machining Symbols, 3. Rivets and Riveted Joints, 4. Welding, 5. Screw Threads, 6. Fastenings, 7. Keys, Cutters and Joints, 8. Shaft Couplings, 9. Bearings, 10. Brackets, 11. Pulleys, 12. Pipe Joints, 13. Steam Engine Parts, 14. I.C. Engine Parts, 15. Valves, 16. Gears, 17. Cams, 18. Jigs and Fixtures, 19. Miscellaneous Drawings, 20. Computer Aided Drafting • *12 - Model Test Papers*

**R.K. Dhawan,** M.I.E., M.I.S.T.E., is Principal Ramgarhia Institute of Engineering & Technology Satnampura, Phagwara (Punjab Technical University, Jalandhar).




## Engineering Fluid Mechanics

K.L. Kumar

### About the Book

*"Engineering Fluid Mechanics"* caters to many engineering disciplines and discusses important concepts such as Fluid Statics, Kinematics, Dynamics as well as Flow (Laminar, Boundary Layer and Open Channels) among other topics. Each chapter contains solved examples supported by exercises, supplementary revision examples and chapter-end questions which aid to the understanding of the concepts explained.

A book which has seen, foreseen and incorporated changes in the subject for over 40 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

### Salient Features

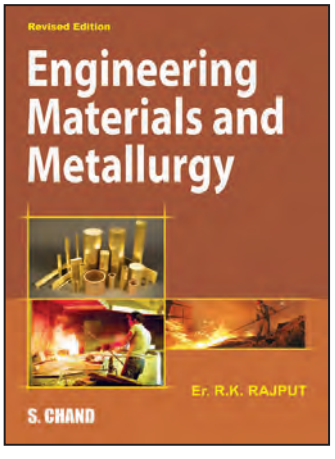
- A unique "Zero Chapter" with a visual focus along with Learning Objectives in Engineering Fluid Mechanics eases the student into the subject.
- Seven Appendixes (including Review of Vector Operations and Properties of Liquids, Gases and Vapours) add to the understanding of students.
- 550+ Tables, Figures and Examples along with almost 450 questions help the text by aiding the understanding of concepts and providing rigorous practice.

**ISBN: 9789385676482 | Code: 1010000666 | Price: ₹ 650 | Pages: 624 | Size: 6.5" X 9.25" (Paperback)**

### Contents

0. The world of Fluid Mechanics: What, Why and How?, 1. Introduction Concepts, 2. Fluid Statics, 3. Fluid Kinematics, 4. Fluid Dynamics, 5. Flow Measurement, 6. Ideal Fluid Flow, 7. Laminar Flow, 8. Boundary Layer Flow, 9. Flow around Immersed Bodies, 10. Flow through Pipes, 11. Flow through Open Channels, 12. Compressible Flow, 13. Dimensional Analysis and Similitude, 14. Fluid Machines • *Appendices: 1. Review of SI Units, 2. Review of Vector Operations, 3. Plane Geometrical Figures, 4. International Standard Atmosphere, 5. Properties of Liquids, 6. Properties of Liquids, 7. Properties of Vapours and Gases, 8. Basic Properties of Air and Water* • *Nomenclature* • *Subject Index*

**K L Kumar** is PhD (London), FIE (India), MASEE (USA) and Professor, Faculty of Engineering and Technology, University of Botswana, Gaborone and former Professor, IIT Delhi.




## Engineering Materials and Metallurgy, 2e

R.K. Rajput

### About the Book

For more than a decade, *"Engineering Materials and Metallurgy"* has been a go-to text for understanding the principal concepts of the two subjects. Written lucidly, the coverage includes important topics such as Alloys, Phase Diagrams, Heat Treatment, Ferrous (and Non-Ferrous) Metals, Non-Metallic Materials and Mechanical Properties and Testing.

### Salient Features

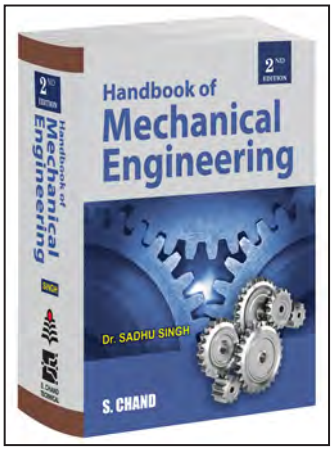
- A unique "Zero Chapter" with a focus on review of basic concepts including Structure of Atoms and Molecules, Miller Indices, Imperfections (Defects) in Crystals and Grain Size Determination.
- Close to 250+ Tables, Examples, Figures and chapter-end highlights aid to the understanding of students.
- A staggering 1100+ chapter-end Theoretical Questions and Objective Type Questions as well as book-end Short-Answer questions and OTQs with answers are provided for practice.

**ISBN: 9788121927093 | Code: 1010B00318 | Price: ₹ 345 | Pages: 344 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Review Basic Concepts (Structure of Atoms and Molecules, Miller Indices, Imperfections (Defects) in Crystals, Grain Size Determination), 1. Constitution of Alloys and Phase Diagrams, 2. Heat Treatment, 3. Ferrous and Non-Ferrous Metals, 4. Non-Metallic Materials, 5. Mechanical Properties and Testing • *Short Answer Questions* • *Objective Type Test Questions (with Answers)* • *Index*

**R.K. Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## Handbook of Mechanical Engineering, (Library Editions)

Sadhu Singh

### About the Book

Handbook of Mechanical Engineering is a comprehensive text for the students of B.E./B.Tech. and the candidates preparing for various competitive examination like IES/IFS/ GATE State Services and competitive tests conducted by public and private sector organization for selecting apprentice engineers.

### Salient Features

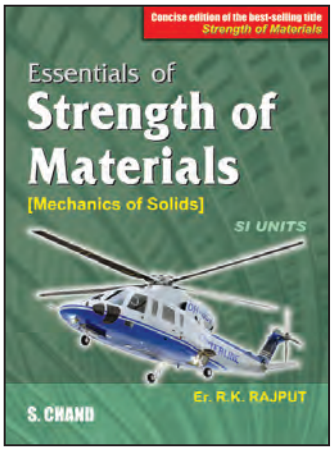
- Adequate Coverage: Divided into 5 major parts, it covers every aspect of Mechanical Engineering.
- Pedagogically strong (Part-VI):
  - 600 Solved Examples
  - 4200 MCQs with Explanatory Notes
  - 500 Assertion and Reason Questions
  - 550 Short Answer Questions

**ISBN: 9788121935876 | Price: ₹ 1995 | Pages: 2,344 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Part-I: Engineering Mathematics: 1. Engineering Mathematics, Part-II: Design Engineering: 2. Engineering Mechanics, 3. Strength of Materials, 4. Theory of Machines, 5. Mechanical Vibrations, 6. Design of Machine Elements, 7. Engineering Materials and Material Science, Part-III: Production Engineering: 8. Metal Casting Processes, 9. Fabrication Processes, 10. Metal Forming Processes, 11. Machining and Machine Tool Operations, 12. Tool Engineering, 13. Metrology and Inspection, Part-IV: Industrial Engineering: 14. Work Study, 15. Production Planning and Control, 16. Inventory Control, 17. Operations Research, Part-V: Thermal Engineering: 18. Fluid Mechanics, 19. Fluid Machinery, 20. Thermodynamics, 21. Internal Combustion Engineering, 22. Power Plant Engineering, 23. Turbomachinery, 24. Heat and Mass Transfer, 25. Refrigeration and Air-Conditioning, Part-VI: 26. Assertion and Reason, 27. Short Answer Type Questions, 28. Glossary of Terms in Mechanical Engineering

**Sadhu Singh** is Former Professor & Head, Mechanical Engineering Department and Dean, Faculty of Engineering & Technology, Govind Ballabh Pant Univesrity of Agriculture and Technology, Pantnagar. He is also Former Director (Colleges), Punjab Technical University, Jalandhar.




## Essentials of Strength of Materials, Concise Edition (Mechanics of Solid)

R K Rajput

### About the Book

This book which deals with the various topics in the subject of Strength of Materials exhaustively. It present the subject-matter in a lucid, direct and easily understandable style. A large number of worked out simple, moderate and difficult problems are arranged in a systematic manner to enable the students to grasp the subject effectively, from examination point of view.

The book comprises of 18 chapters (including advance topics) covering the syllabi in the subject of "Strength of Materials" of all the Indian Universities and Competitive Examinations as well. It contains Experiments at the end of the chapters to enable the students to have an access to the practical aspects of the subject.

### Salient Features

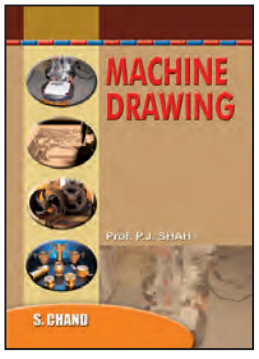
- Typical Examples: useful for students appearing in competitive examinations in particular and other students in general
- Highlights, Objective Type Questions and a large number of Unsolved Examples

**ISBN: 9789385401961 | Code: 1010000662 | Price: ₹ 995 | Pages: 988 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Simple Stresses and Strains, 2. Principal Stresses and Strains, 3. Bending Moments and Shearing Forces, 4. Bending Stresses in Beams, 5. Combined Direct and Bending Stresses, 6. Shearing Stresses, 7. Deflection of Beams, 8. Fixed and Continuous Beams, 9. Thin Shells, 10. Thick Shells, 11. Torsion of Circular and Non-Circular Shafts, 12. Springs, 13. Strain Energy and Deflection Due to Shear and Bending, 14. Columns and Struts, 15. Theories of Failure, 16. Stresses due to Rotation, 17. Bending of Curved Bars, 18. Unsymmetrical Bending and Shear Centre • *Appendix: Centroid and Moment of Inertia– Important Formulae* • *Index*

**R K Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## Machine Drawing

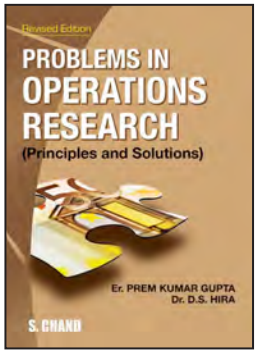
P.J. Shah

**ISBN: 9788121929660**
**Code: 1010000358**
**Price: ₹ 250 | Pages: 258**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

15. Orthographic Projections, 16. Sectional Orthographic Projections, 17. Orthographic Reading, 18. Isometric (Projection/View/Drawing) (Axonometric Projection), 19. Details and Assembly Drawings, 20. Dimensioning, 21. Fasteners, 22. Couplings, 23. Bearings • *Solutions of Exercises*

**P J Shah** is Former Professor, Mechanical Engineering, L.D. College of Engineering, Ahmedabad.




## Problems in Operations Research (Principles and Solutions) 3e

Prem Kumar Gupta & D.S. Hira

Multicolour Edition

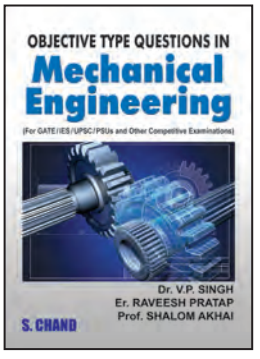
**ISBN: 9788121909686**
**Code: 1010C00128**
**Price: ₹ 995 | Pages: 1,304**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Basics of Operations Research, 2. Linear Programming, 3. The Transportation Model, 4. The Assignment Model, 5. Sequencing Models and Related Problems, 6. Advanced Topics in Linear Programming, 7. Dynamic Programming, 8. Decision Theory, Games, 9. Investment Analysis and Annuity, 10. Queuing Models, 11. Replacement Models, 12. Inventory Models, 13. Simulation, 14. Network Analysis in Project Planning (PERT and CPM), 15. Statistical Quality Control, 16. Non-Linear Programming • Bibliography, • Index

**Pream Kumar Gupta** is Former Assistant Professor, PEC Institute of Engineering and Technology, Chandigarh.

**D.S. Hira** is Director General, Swami Vivekanand Group of Institute, Patiala.




## Objective Type Questions in Mechanical Engineering

V.P. Singh, Raveesh Pratap & Shalom Akhai

**ISBN: 9789383746019**
**Code: 1010000618**
**Price: ₹ 550 | Pages: 672**
**Size: 6.75" X 9.5" (Paperback)**

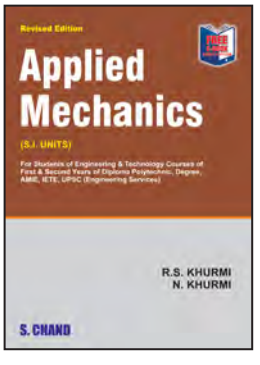
### Contents

1. Engineering Mechanics, 2. Strength of Materials, 3. Theory of Machines, 4. Vibration, 5. Machine Design, 6. Fluid Mechanics and Machinery, 7. Heat Transfer, 8. Thermodynamics, 9. Internal Combustion Engines, 10. Power Plant Engineering, 11. Refrigeration and Air Conditioning, 12. Engineering Materials, 13. Industrial Engineering, 14. Manufacturing Engineering • *Question Paper (ME-GATE)* • *Bibliography*

**V P Singh** is member, Board of Management and Chairman (PG Admissions) as well as Former Head of Mechanical Engineering Department, PEC University of Technology, Chandigarh.

**Raveesh Pratap** is a Former Assistant Manager, Godrej Ltd.

**Shalom Akhai** is a Faculty PEC University of Technology, Chandigarh.



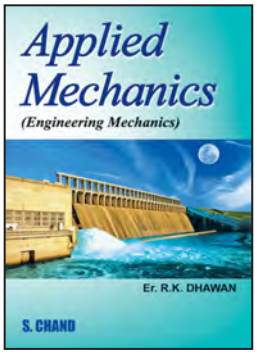

## Applied Mechanics (SI Units)

R S Khurmi & N Khurmi

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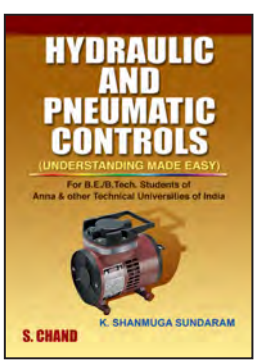
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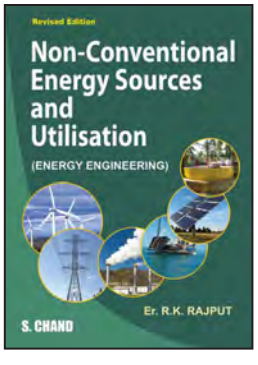
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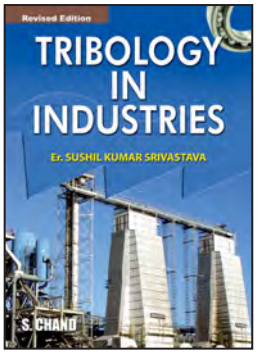
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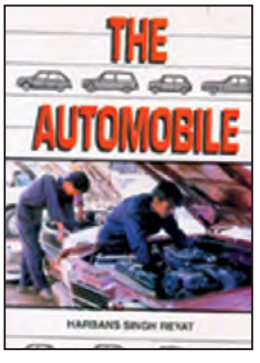
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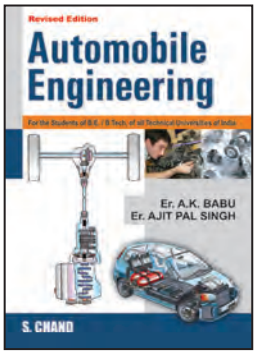

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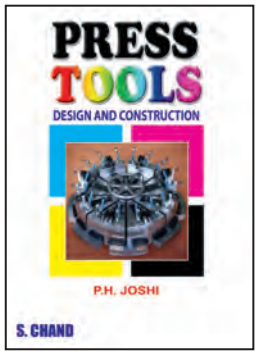
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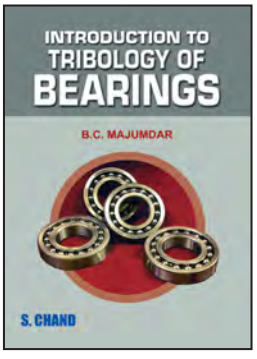
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# Advanced Accounts, 19e

M.C. Shukla, T.S. Grewal & S.C. Gupta

## About the Book

This comprehensive edition is the most authoritative text on advanced accounting topics. The book continues its legacy and provides a contemporary and comprehensive presentation of a wide spectrum of accounting concepts and applications. Detailed fundamentals provide a natural grounding and help in gaining accounting skills and knowledge. The book offers a structural presentation with over 500 clear illustrations, extensive exercise questions and updated accounting treatments. The book could be used to great advantage by accounting professionals.

## Key Features

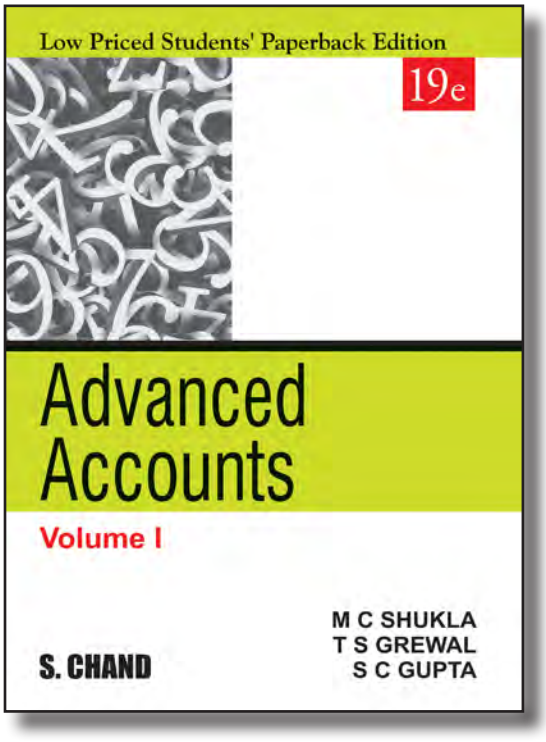
- Complete coverage of accountancy syllabus and up to date discussion of accounting standards
- Structured presentation with more than 500 illustrations to explain the concepts and techniques
- More than 450 exercise questions supplemented by essay questions to reinforce learning
- Topic of 'Lease' revised as per latest Accounting Standard 17

**ISBN: 9789352533145 | Price: ₹ 1,995 | Pages: 2,332 | Size: 6.75" X 9.5" (Hardback)**

## Contents

1. Fundamental Principles of Accounting
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3. Bills of Exchange and Promissory Notes
4. Consignments, Joint Ventures, Account Current, Average Due Date, etc.
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6. Depreciation, Reserves and Provisions
7. Receipts and Payments Account, Income and Expenditure Account and Balance Sheet
8. Single Entry or Accounts from Incomplete Records
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10. Partnership Accounts (II) (Dissolution)
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15. Royalties
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17. Miscellaneous
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22. Holding Companies
23. Statement of Cash Flows, Funds Flow Statement, Cash Budget and Working Capital
24. Accounting Ratios
25. Insurance Companies
26. Bank
27. Liquidation
28. Computerised Accounting System
29. Inflation Accounting
30. Accounting for Human Resources of an Organisation and Social Responsibility
- *Multiple Choice Questions (Chapter-wise)*

**M C Shukla,** Professor, School of Correspondence Courses and Continuing Education, University of Delhi.
**T S Grewal,** Formerly Director, Board of Studies, The Institute of Chartered Accountants of India, New Delhi.
**S C Gupta,** Formerly Reader, Department of Commerce, Hans Raj College, University of Delhi.




# Advanced Accounts - Volume I, 19e (LPSPE)

M C Shukla, T S Grewal & S C Gupta

## About the Book

The nineteenth edition of this authoritative text continues the legacy of its earlier editions and provides a comprehensive coverage of many advanced accounting topics. Detailed fundamentals provide a natural grounding and help in gaining accounting skills and knowledge. The book could be used to great advantage by students of B.Com (Hons.) and accounting professionals.

## Key Features

- Balanced theoretical and practical coverage to help accounting learners master the subject
- Structured presentation supported by over 300 illustrations
- More than 350 exercise questions supplemented by essay questions to reinforce learning
- Topic of 'Lease' revised as per latest Accounting Standard 17

**ISBN: 9789355010766 | Price: ₹ 695 | Pages: 1,032 | Size: 6.75" X 9.5" (Paperback)**

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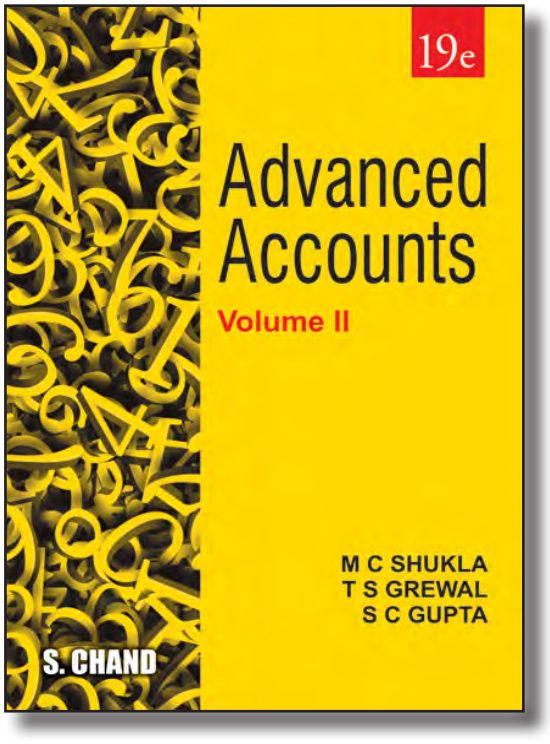
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# Advanced Accounts - Volume II, 19e

M C Shukla, T S Grewal & S C Gupta

## About the Book

Keeping in pace with the changing accounting practices, this nineteenth revised edition provides a contemporary and comprehensive presentation of accounting concepts and applications.

Building on past milestones, the book continues to grow stronger with its integrated coverage and clear presentation of the most recent accounting standards and statutory developments. Designed for advanced accounting course, the book has proven to be a premier teaching and learning solution.

## Key Features

- Complete coverage of accountancy syllabus and up to date discussion of accounting standards
- More than 200 illustrations to explain the concepts and techniques
- Multiple choice questions to reinforce understanding

**ISBN: 9789352533138 | Price: ₹ 850 | Pages: 1,304 | Size: 6.75" X 9.5" (Paperback)**

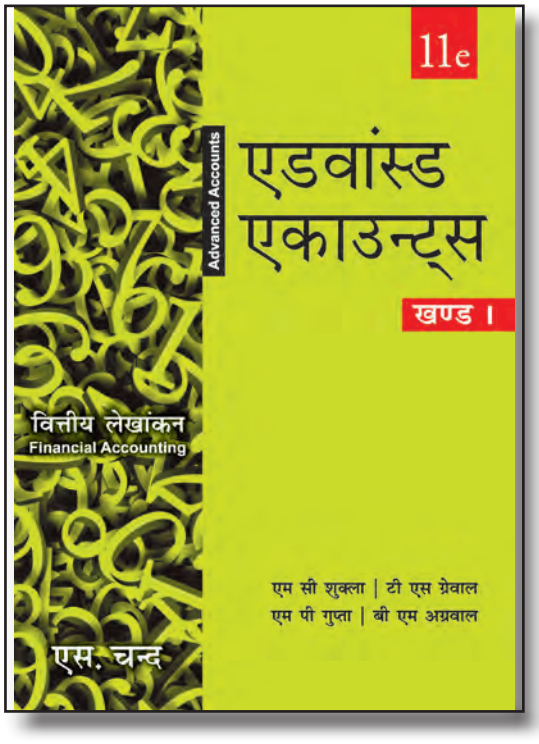
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# एडवांस्ड एकाउन्ट्स-खण्ड I, 11e

एम सी शुक्ला, टी एस ग्रेवाल,
एम पी गुप्ता एवं बी एम अग्रवाल

## पुस्तक के विषय में

अत्यन्त सरल एवं सुबोध भाषा में लिखी गयी इस पुस्तक में वित्तीय लेखांकन के विविध पहलुओं पर विस्तार से चर्चा की गयी है एवं वित्तीय लेखांकन के आधारभूत सिद्धान्तों की विस्तृत विवेचना की गयी है।

## प्रमुख विशेषताएँ

- वित्तीय लेखांकन का विस्तृत एवं प्रामाणिक विवेचन दिया गया है।
- कॉर्पोरेट अधिनियम एवं लेखांकन प्रमापों में हुए संशोधनों के अनुरूप विषय-वस्तु में आवश्यक संशोधन किया गया है
- लीज़ फाइनेंस के प्रकरण को संशोधित किया गया है
- किराया-क्रय अधिनियम के प्रावधानों को स्पष्टय किया गया है
- विनियोग खातों में राइट के विक्रय में संशोधन किया गया है
- विभिन्न परीक्षाओं में पूछे गये महत्त्वपूर्ण प्रश्नों का समावेश किया गया है।
- 450 से अधिक उदाहरण, 122 व्याख्यात्मक एवं 340 क्रियात्मक प्रश्न दिये गये हैं।

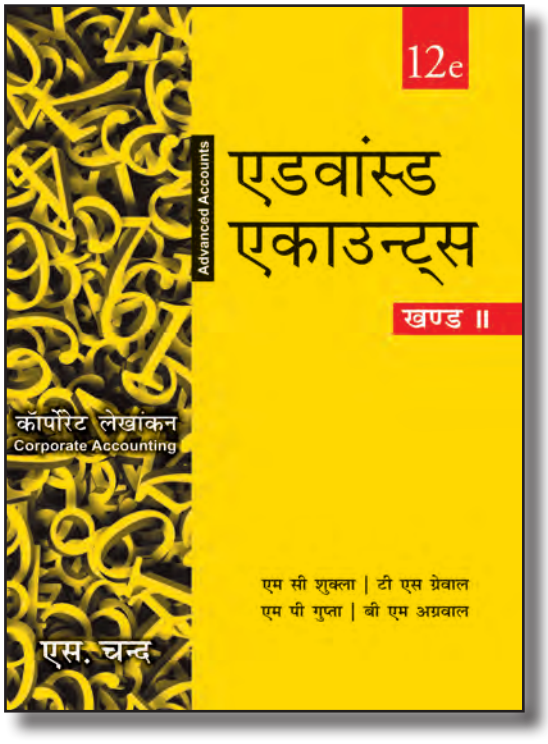
एकाउन्टैसी के विद्यार्थियों के अतिरिक्त, यह पुस्तक विभिन्न प्रोफेशनल कोर्सेज़ जैसे सीए, तथा सीएमए आदि के विद्यार्थियों के लिए भी उपयोगी है। साथ ही आईएएस, तथा अन्य प्रतियोगी परीक्षाओं के अभ्यर्थी भी इससे लाभान्वित होगें।

**ISBN: 9789352836079 | Price: ₹ 850 | Pages: 1,200 | Size: 6.75" X 9.5" (Paperback)**

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27. बीमा दाव
28. अनुमोदन अथवा 'विक्रय या वापसी' आधार पर बेचे गये माल का लेखांकन

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# एडवांस्ड एकाउन्ट्स-खण्ड II, 12e

एम सी शुक्ला, टी एस ग्रेवाल,
एम पी गुप्ता एवं बी एम अग्रवाल

## पुस्तक के विषय में

अत्यन्त सरल एवं सुबोध भाषा में लिखी गयी इस पुस्तक में वित्तीय लेखांकन के विविध पहलुओं पर विस्तार से चर्चा की गयी है एवं वित्तीय लेखांकन के आधारभूत सिद्धान्तों की विस्तृत विवेचना की गयी है।

## प्रमुख विशेषताएँ

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- सेवी, इन्श्योरेंस रेगुलेटरी अथॉरिटी तथा रिज़र्व बैंक के नये दिशा-निर्देश दिये गये हैं।
- कम्पनी के अन्तिम खातों के नये प्रारूप को सम्मिलित किया गया हैं।
- कोष प्रवाह तथा रोकड़ प्रवाह का विवरण दिया गया है
- लेखांकन प्रमापों (ए एस-1 से ए एस-29) की पूर्ण व्याख्या की गयी है।
- विभिन्न परीक्षाओं में पूछे गये महत्त्वपूर्ण प्रश्नों का समावेश किया गया है।
- अभ्यास के लिए व्याख्यात्मक एवं क्रियात्मक प्रश्न दिये गये हैं।

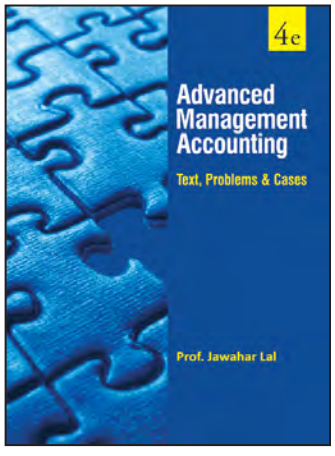
एकाउन्टैसी के विद्यार्थियों के अतिरिक्त, यह पुस्तक विभिन्न प्रोफेशनल कोर्सेज़ जैसे सीए. तथा सीएमए आदि के विद्यार्थियों के लिए भी उपयोगी है। साथ ही आईएएस, तथा अन्य प्रतियोगी परीक्षाओं के अभ्यर्थी भी इससे लाभान्वित होगें।

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**एम.सी. शुक्ला,** बी.ए., बी.कॉम. (बर्मिघम), बैरिस्टर-एट-लॉ, भूतपूर्व प्राध्यापक, वाविज्य एवं निदेशक, पत्राचार पाठ्यक्रम, दिल्ली विश्वविद्यालय,
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**बी.एम. अग्रवाल,** एम.कॉम., पी-एच.डी., कॉलेज, कानपुर, भूतपूर्व अध्यक्ष, वाणिज्य विभाग, डी.ए.वी. कॉलेज, कानपुर




## Advanced Management Accounting, 4e

Jawahar Lal

Instructor's Resource available

### About the Book

The revised edition provides a comprehensive and updated coverage of important topics, current trends, latest ideas and researches in management accounting. Expanding on its theoretical base, the book provides practical exposition to help students strengthen conceptual understanding and develop problem-solving skills to succeed in the classroom and beyond. Pedagogically enriched with new features and an impressive layout, this new edition is an essential text for students of M.Com, MBA, CA, ICWA, CS, CFA and other professional courses.

### Key Features

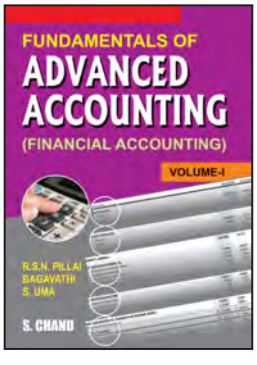
- Numerical problems and cases to enhance the application of theory to real-world scenarios
- Over 300 illustrations to aid understanding of concepts
- More than 400 multiple choice questions as well as 600+ discussion questions to reinforce learning

**ISBN: 9789352533084 | Price: ₹ 995 | Pages: 1,400 | Size: 6.75" X 9.5" (Paperback)**

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**Jawahar Lal,** Formerly Professor, Department of Commerce, Delhi School of Economics, University of Delhi



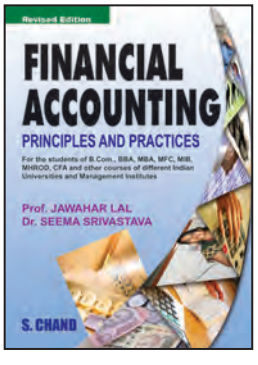

## Fundamentals of Advanced Accounting Volume I, 5e

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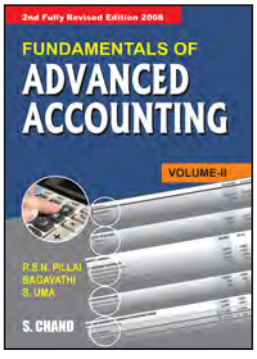

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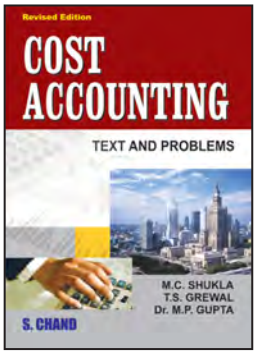

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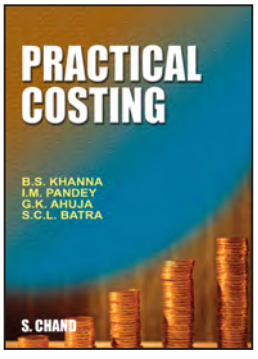

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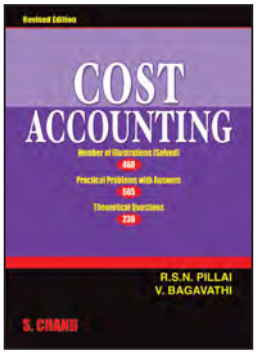

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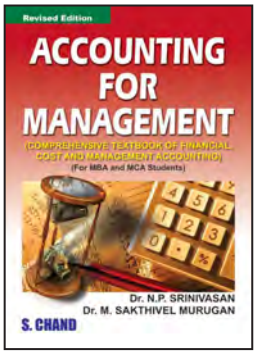

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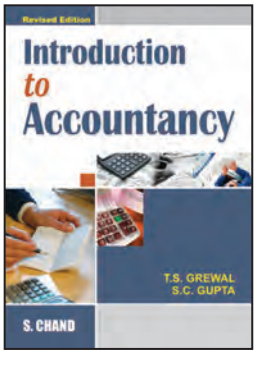

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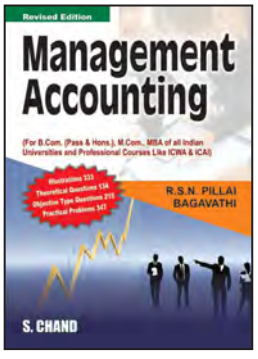

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## Fundamentals of Commerce Course 1

**As per the new syllabus prescribed by APSCHE**

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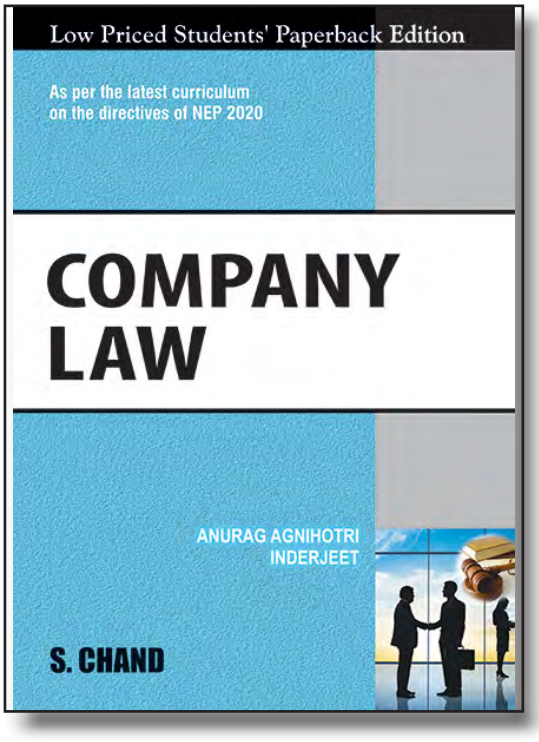
This book has been primarily designed to meet the needs of B.Com. first semester students for the Andhra Pradesh State Council of Higher Education (APSCHE). It comprehensively covers the major course, namely, Fundamentals of Commerce. This book has been divided into five units, comprising of 21 chapters. The book acquaints the students to acquire conceptual knowledge of the Commerce, Economy and Role of Commerce in Economic Development. The students will develop the knowledge on Accounting and Taxation and learn the skills on web design and digital marketing . Topics like Introduction and Role of Commerce; Economic Theory; Accounting Principles; Taxation and Computer Essentials have been aptly discussed in a lucid manner.

### Key Features

- Boxed items throughout the text providing information on intricate terms and topics
- Numerous illustrations have been provided for a better understanding of the text
- Engaging chapter-end exercises have been provided for practice

### Contents

Unit I: Introduction: 1. Understanding Commerce, 2. International Trade, 3. Balance of Payments, 4. Economic and Societal Impact of Commerce. Unit II: Economic Theory: 1. Introduction to Macro Economics, 2. Concepts of National Income, 3. Micro Economics-Demand and Supply, 4. Elasticity of Demand and Supply, 5. Classification of Markets-Perfect Competition. Unit III: Accounting Principles: 1. Introduction to Accounting, 2: Branches of Accounting, 3. Concepts and Conventions of Accounting. Unit IV: Taxation: 1. An Introduction to Taxation, 2. Types of Taxes and their Characteristics, 3. Key Taxes in India 4. The Role of Tax Authorities in India. Unit V: Computer Essentials: 1. Basics of Web Design, 2. Digital Marketing and Its Components, 3. Leveraging Digital Marketing for Business Growth, 4. Introduction to Data Analytics.




# Company Law: For NEP 2020

Anurag Agnihotri & Inderjeet

## About the Book

This book has been primarily designed to meet the needs of B.Com. students under the recommended National Education Policy 2020 (NEP 2020) for the subject Company Law. The book acquaints the students to develop and comprehend business and its processes in accordance with the provisions of the Companies Act, 2013. Important topics like types of companies, formation of company, doctrine of constructive notice, ultra vires and indoor management have been aptly discussed in a lucid manner. Further, it discusses share capital, framework of dividend distribution and develop understanding of the winding up process including insolvency resolution.

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- Flow charts and graphs have been provided at relevant places for better understanding of the concepts

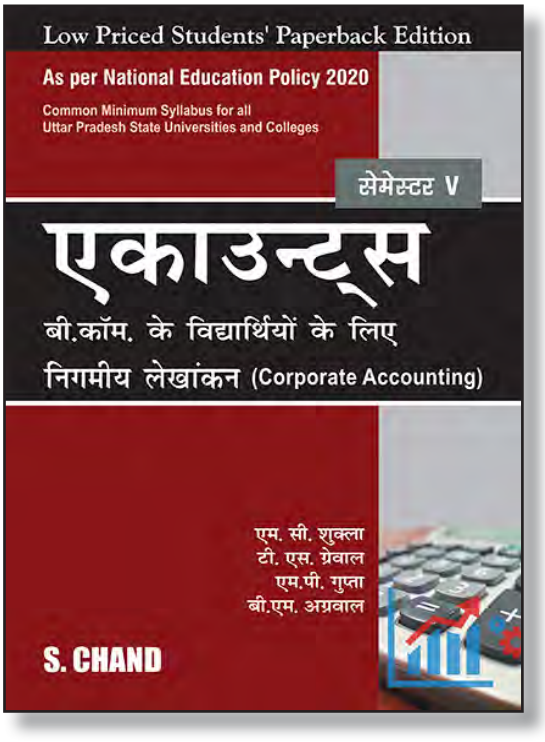
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## Contents

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4. Documents
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7. Meetings
8. Appointment and Remuneration of Key Managerial Personnel
9. Distribution of Profits-Dividend
10. Role of Audit and Auditors
11. Voluntary Winding Up
12. Depository Act, 1996

**Anurag Agnihotri** Assistant Professor, CVS, University of Delhi, New Delhi
**Inderjeet** CMA, Principal, CVS, University of Delhi, New Delhi

National Education Policy 2020




# एकाउन्ट्स बी.कॉम. के विद्यार्थियों के लिए

## सेमेस्टर-V ( As per National Education Policy 2020 –Common Minimum Syllabus for all Uttar Pradesh State Universities and Colleges)

## Nigamiaya Lekhankan (Corporate Accounting)

**M.C. Shukla | T.S. Grewal | M.P. Gupta | B.M. Agarwal**

### पुस्तक के विषय में

यह पुस्तक, नई शिक्षा नीति 2020 द्वारा अनुशांसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों और महाविद्यालयों के लिए समान न्यूनतम पाठयक्रम **(Common Minimum Syllabus)** के आधार पर अत्यंत सरल एवं सुबोध भाषा में लेखांकन के छात्रों के लिए लिखी गई है। यह पुस्तक बी.कॉम लेखांकन के विद्यार्थियों के साथ-साथ विभिन्न प्रोफेशनल कोर्स जैसे सीए, सीएस, तथा सीएमए के अभ्यार्थियों के लिए भी उपयोगी है।

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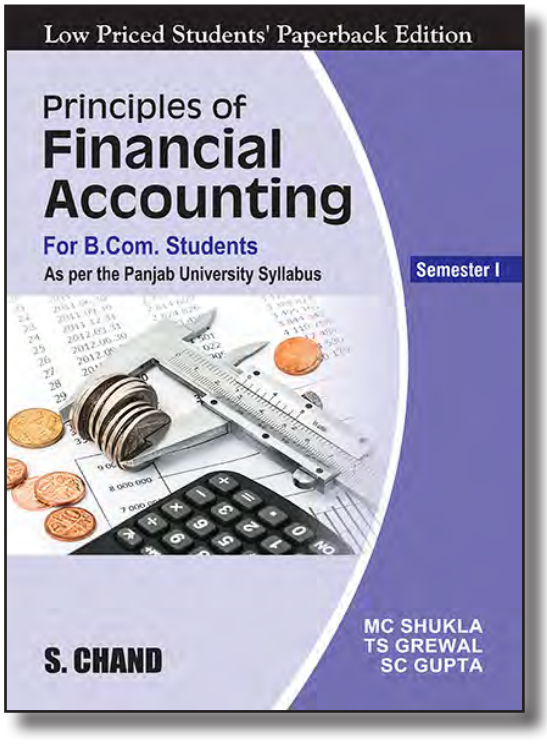
1. कम्पनी खाते-1 **(Company Accounts-1)** अंशों का निर्गमन तथा अभिगोपन बोनस अंश **(Issue and Underwriting of Shares and Bonus Shares)**
2. कम्पनी खाते-2 **(Company Accounts-2)** पूर्वाधिकार अंशों का शोधन एवं स्वयं के अंशों का क्रय **(Redemption of Preference Shares & Buy-back of Shares)**
3. कम्पनी खाते-3 **(Company Accounts-3)** ऋणपत्र-निर्गमन एवं शोधन **(Debentures: Issue and Redemption)**
4. कम्पनी खाते-4 **(Company Accounts-4)** व्यवसाय का क्रय तथा समामेलन के पूर्व-पश्चात् का लाभ **(Business Purchase & Profits before and after Incorporation)**
5. कम्पनी के लेखे-5 **(Company Accounts-5)** अन्तिम खाते **(Final Accounts)**
6. ख्याति का मूल्यांकन **(Valuation of Goodwill)**
7. अंशों का मूल्यांकन **(Valuation of Shares)**
8. कम्पनियों का एकीकरण, संविलयन एवं बाह्य पुनर्निर्माण **(Amalgamation, Absorption and External Reconstruction of Companies)**
9. अंश पूंजी में परिवर्तन तथा आन्तरिक पुनर्निर्माण **(Alteration of Share Capital and Internal Reconstruction)**

**M.C. Shukla** BA, B.Com. (Birmingham), Bar-at-Law, Retd. Professor of Commerce and Director of Correspondence Courses, University of Delhi, Delhi

**T.S. Grewal** Former Director of Studies, Coaching Board, Institute of Chartered Accountants of India, New Delhi

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**B.M. Agarwal** M.Com., PhD, ACS, Former Head of Commerce Department, DAV College, Kanpur; Visiting Faculty Member, Central India, Regional Council of Institute of Chartered Accountants of India, Kanpur and Kanpur Chapter of the Institute of Company Secretaries of India




# Principles of Financial Accounting

## Semester I (For B.Com. Students)

## As per the Panjab University Syllabus

MC Shukla | TS Grewal | SC Gupta

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This book has been primarily designed to meet the needs of B.Com. first semester students for the Panjab University, Chandigarh. It comprehensively covers the major course, namely, Principles of Financial Accounting. The book acquaints the students to acquire conceptual knowledge of financial accounting and to impart skills for recording various kinds of business transactions. Topics like Financial Accounting Standards, Financial Statements, Branch Accounting, Departmental Accounts, Consignment Accounts, Joint Venture Accounts, Partnership Accounts and Royalty Accounts have been aptly discussed in a lucid manner.

### Key Features

- Numerous illustrations along with solutions have been provided for better understanding of important theoretical concepts
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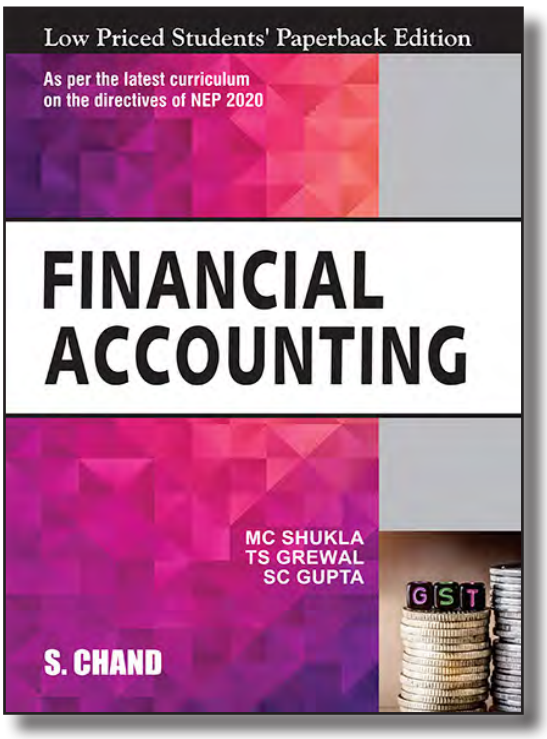
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6. Consignment Accounts
7. Joint Venture Accounts
8. Partnership Accounts
9. Royalty Accounts
10. Previous Years Question Papers

**MC Shukla** BA, BCom (Birmingham), Bar-at-Law, Retd. Professor of Commerce and Director of Correspondence Courses, University of Delhi, New Delhi

**TS Grewal** MA (Com) Former Director of Studies, Coaching Board, Institute of Chartered, Accountants of India, New Delhi

**SC Gupta** Former Reader in Commerce, Hans Raj College, University of Delhi, New Delhi




# Financial Accounting

## (As per the latest curriculum on the directives of NEP 2020)

MC Shukla | TS Grewal | SC Gupta

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This textbook has been primarily designed to meet the needs of B.Com. First Semester students under the recommended National Education Policy 2020. It comprehensively covers the major paper, namely, Financial Accounting. This book has been divided into five units, comprising of 13 chapters. The book acquaints the students to acquire conceptual knowledge of financial accounting and to impart skills for recording various kinds of business transactions. The students will understand the accounting treatment of depreciation, accounting for hire purchase and instalment purchase system along with the branch accounting. Topics like Accounting Theory and Philosophy, Financial Accounting Standards, Business Income and Revenue Recognition, Financial Statements of Non-corporate Entities, Financial Statements of Not for Profit Organisations (NPO), Hire Purchase, Instalment and Lease, Branch Accounting, Introduction to Computerised Accounting and Introduction to Tally.ERP 9 have been aptly discussed in a lucid manner.

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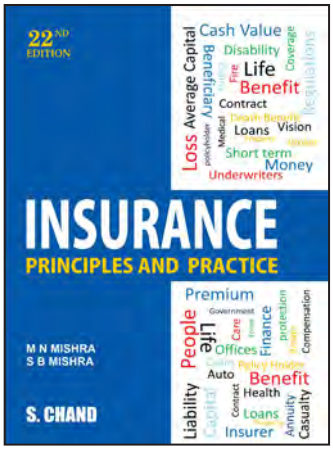
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4. Business Income and Revenue Recognition
5. Capital and Revenue Expenditure
6. Depreciation, Reserves and Provisions
7. Valuation of Inventories
8. Preparation of Financial Statements of Non-corporate Entities

**UNIT III: FINAL ACCOUNTS**
9. Financial Statements of Not for Profit Organisations (NPO)

**UNIT IV: HIRE PURCHASE, INSTALMENT SYSTEMS AND BRANCHES**
10. Hire Purchase, Instalment and Lease
11. Branch Accounting

**UNIT V: COMPUTERISED ACCOUNTING SYSTEM**
12. Introduction to Computerised Accounting
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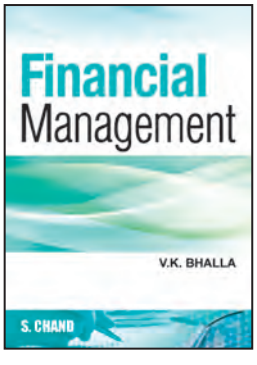
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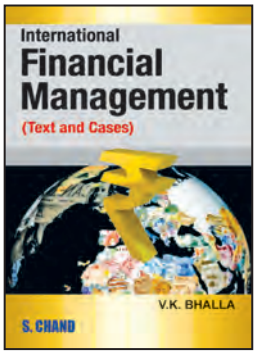

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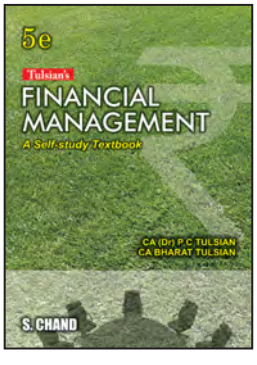

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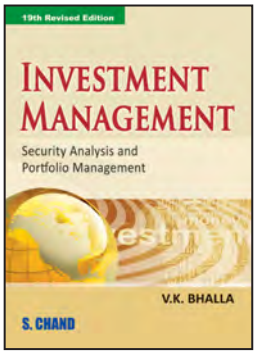

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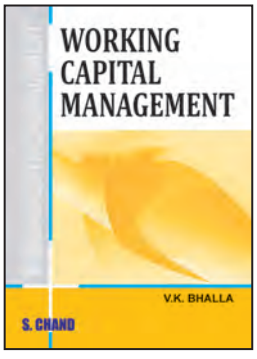

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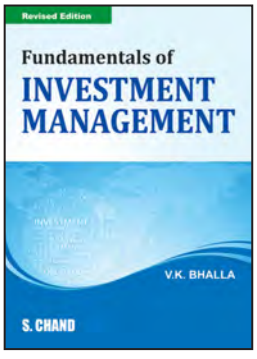

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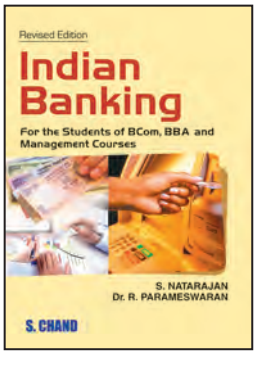

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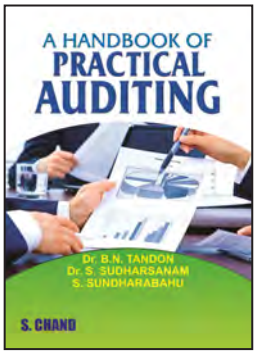

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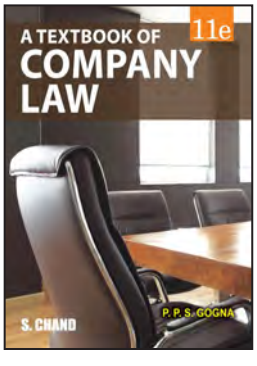

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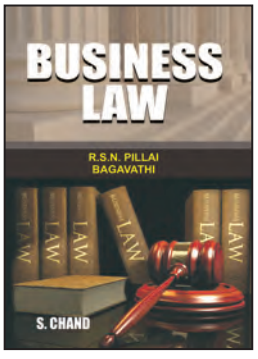

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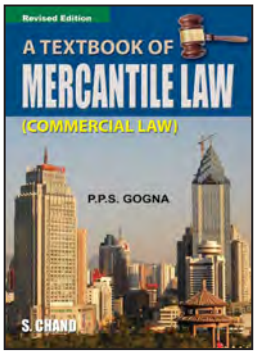

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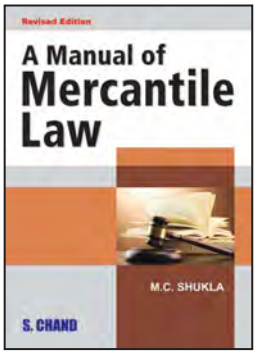

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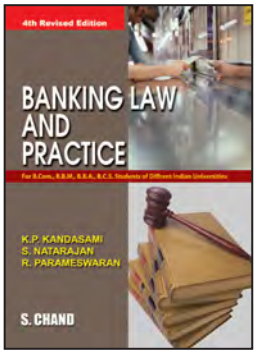

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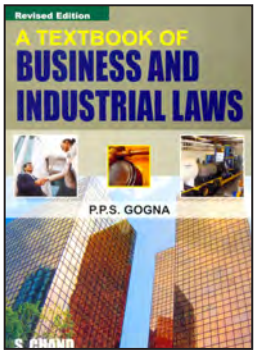

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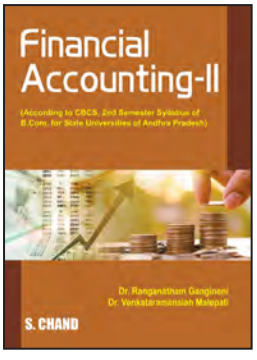
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## Books for Andhra Pradesh




## Financial Accounting–II

Dr.Ranganatham Gangineni
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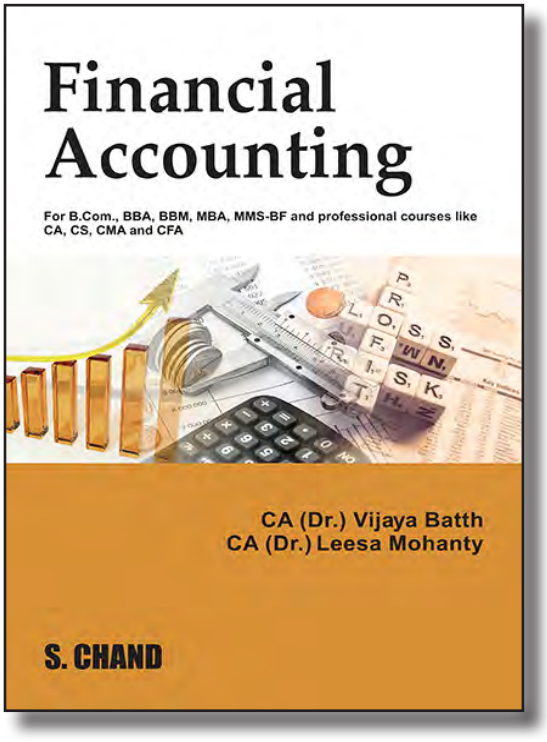
This Book is prepared and designed to meet the requirements of Second semester of Commerce graduates keeping the common core syllabus of Andhra Pradesh Council of Higher Education as per CBCS. This book will be useful to the students of 2nd semester of B.Com. For all the State Universities of Andhra Pradesh that have Accounting as a Subject.

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### Contents

1. Depreciation, 2. Provisions and Reserves, 3. Bills of Exchange, 4. Consignment Accounts, 5. Joint Venture Accounts




# Financial Accounting

CA (Dr.) Vijaya Batth | CA (Dr.) Leesa Mohanty

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This book is exclusively prepared for beginners and students pursuing commerce and management education after their schooling. It will also be useful for students aspiring to pursue professional courses like CA, CS, CMA, etc.

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- Learning objectives at the commencement of each chapter
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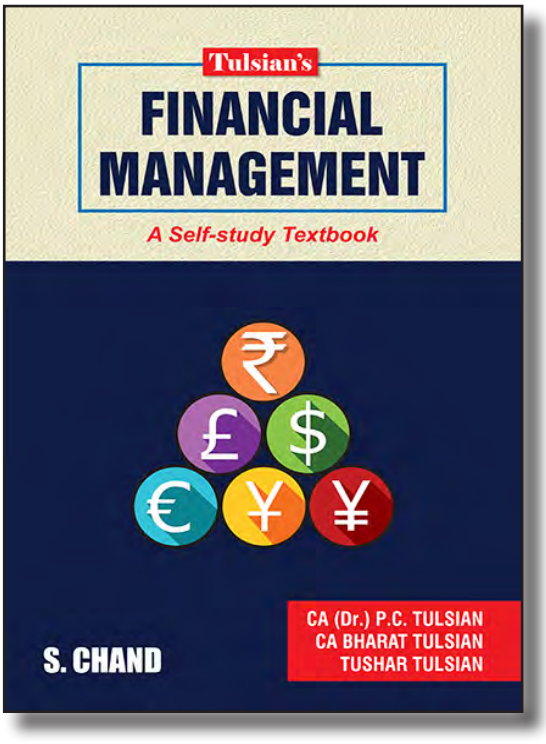
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16. Branch and Departmental Accounts
17. Hire Purchase and Instalment Systems
18. Joint Venture and Consignment Accounts
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20. Financial Statements of a Company
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Answer Key

**CA (Dr.) Vijaya Batth** Assistant Professor of Accounting, School of Commerce, XIM University, Bhubaneswar, India
**CA (Dr.) Leesa Mohanty** Assistant Professor of Accounting, School of Commerce, XIM University, Bhubaneswar, India

National Education Policy 2020




# Tulsian's Financial Management

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

## About the Book

This book has been primarily designed to meet the needs of B.Com. students under the recommended National Education Policy 2020 (NEP 2020) for the subject Financial Management. It serves as a self-study text and provides essential guidance for understanding of Introduction to Financial Management, Time Value of Money, Cost of Capital, Capital Structure Theories, Leverage, Capital Investment Decisions, Dividend Decisions and Working Capital Management. The book has been written in simple and lucid manner covering all the important equations, formulae and practical steps in a systematic manner to aid students learning. Based on the author's proven approach "teach yourself" style, the book is replete with numerous illustrations, exhibits and solved problems.

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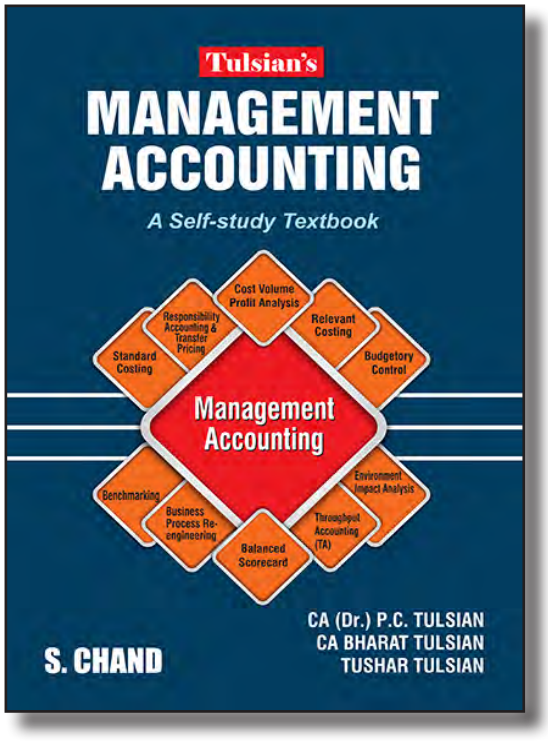
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8. Dividend Decisions
9. Working Capital Management—Estimation and Financing
10. Working Capital Management—Receivables Management
11. Working Capital Management—Inventory Management
12. Working Capital Management—Cash Management

Appendix 1: Important Formulae for Revision
Appendix 2: Important Theoretical Questions for Revision
Appendix 3: Tulsian's Assignments




# Tulsian's Management Accounting:

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

## About the Book

This book has been primarily designed to meet the needs of B.Com. students under the recommended National Education Policy 2020 (NEP 2020) for the subject Management Accounting. It serves as a self-study text and provides essential guidance for understanding of an Introduction to Management Accounting; Marginal Costing; Budgeting and Budgetary Control; Standard Costing, Responsibility Accounting and Transfer Pricing. The book has been written in simple and lucid manner covering all the important equations, formulae and practical steps in a systematic manner to aid students learning. Based on the author's proven approach "teach yourself" style, the book is replete with numerous illustrations, exhibits and solved problems.

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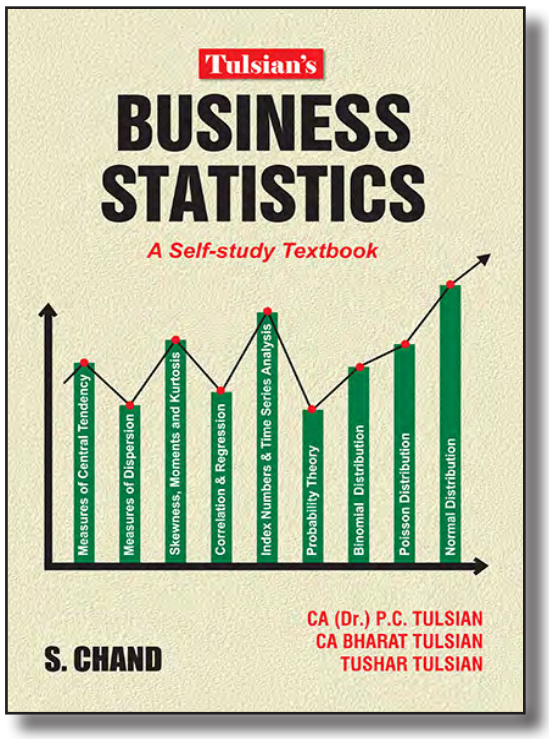
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Appendix 1: Important Formulae for Revision
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# Tulsian's Business Statistics:

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

## About the Book

This book has been primarily designed to meet the needs of B.Com. students under the recommended National Education Policy 2020 (NEP 2020) for the subject Business Statistics. It serves as a self-study text and provides essential guidance for various topics including understanding of Statistics; Diagrammatic and Graphical Presentation; Measures of Central Tendency; Correlation and Regression Analysis; Analysis of Time Series; Index Numbers; Probability Theory and Theoretical Distributions. The book has been written in simple and lucid manner covering all the important equations, formulae and practical steps in a systematic manner to aid students learning. Based on the author's proven approach "teach yourself" style, the book is replete with numerous illustrations, exhibits and solved problems.

## Key Features

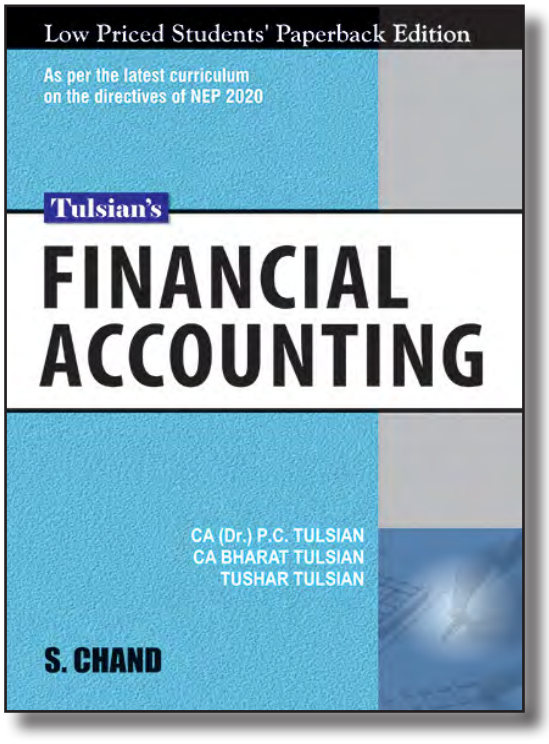
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Appendix II: Analytical Questions with Reasoning
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Appendix IV: "Tulsian's Assignments" for Practice
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# Tulsian's Financial Accounting:

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

## About the Book

This book has been primarily designed to meet the needs of B.Com students under the recommended National Education Policy 2020 (NEP 2020) for the subject Financial Accounting.

The book acquaints the students with basic concepts of accounting, accounting processes, accounting income, accounting principles & policies. Topics like revenue recognition as per AS 9, accounting for property, plant and equipment as per AS 10, accounting for intangible assets as per AS 26, valuation of inventory as per AS 2, accounting for leases as per AS 19. Accounting for branches and departments, preparation of financial statements have been discussed in detail in the simplest language "meant to serve beginners".

This book has been written in simple and lucid manner covering all the important equations, formulae, figures and practical steps in a systematic manner to aid students' learning. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and easy retention of concepts

## Key Features

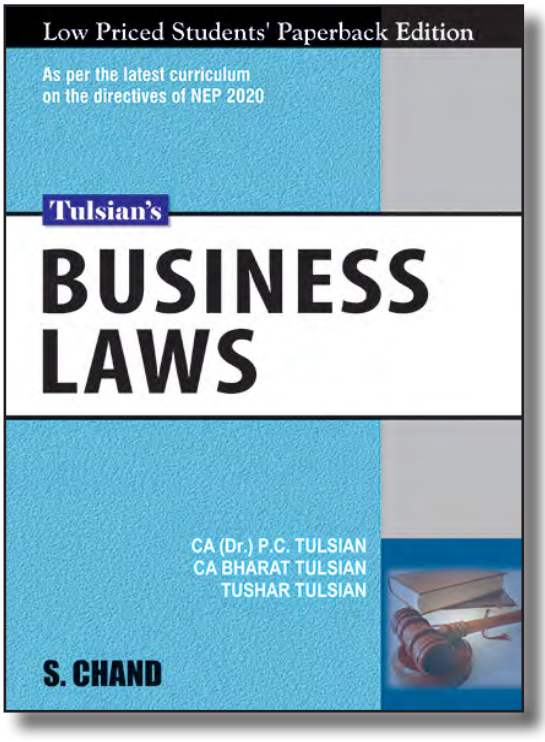
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- More than 300 solved problems along with necessary working notes and alternative solution have been provided throughout the text

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## Tulsian's Business Laws: NEP-2020

New

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

### About the Book

This book has been primarily designed to meet the needs of B.Com. students under the recommended National Education Policy 2020 (NEP 2020) for the subject Business Laws.

The book acquaints the students with basics of The Indian Contact Act, 1872; The Sale of Goods Act, 1930; and The Limited Liability Partnership Act, 2008. This book has been written in simple and lucid manner covering all the important equations, formulae, figures and practical steps in a systematic manner to aid students' learning. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and easy retention of concepts.

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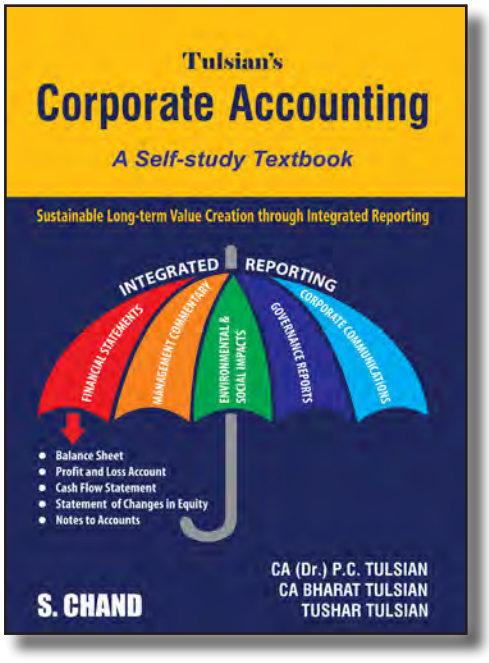
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13: Contracts of Bailment and Pledge
14: Contract of Agency
15: The Sale of Goods Act, 1930
16: The Limited Liability Partnership Act, 2008

• Appendices (Model Test Papers)

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## Tulsian's Corporate Accounting

New

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

### About the Book

Tulsian's Corporate Accounting has been written to meet the requirements of B.Com. students. Also, it is as per the recommended National Education Policy 2020 (NEP 2020). The book acquaints the students to acquire conceptual knowledge of financial accounting, to impart skills for recording various kinds of business transactions andto prepare financial statements. Topics like Financial Statements of Companies, Valuation of Intangible Assets and Shares, Amalgamation of Companies & Internal Reconstruction and Corporate Financial Reporting have been aptly discussed in a lucid manner. All important equations, formulae, figures and practical steps have been presented in screen format to catch the reader's eye. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits for easy retention of concepts.

### Key Features

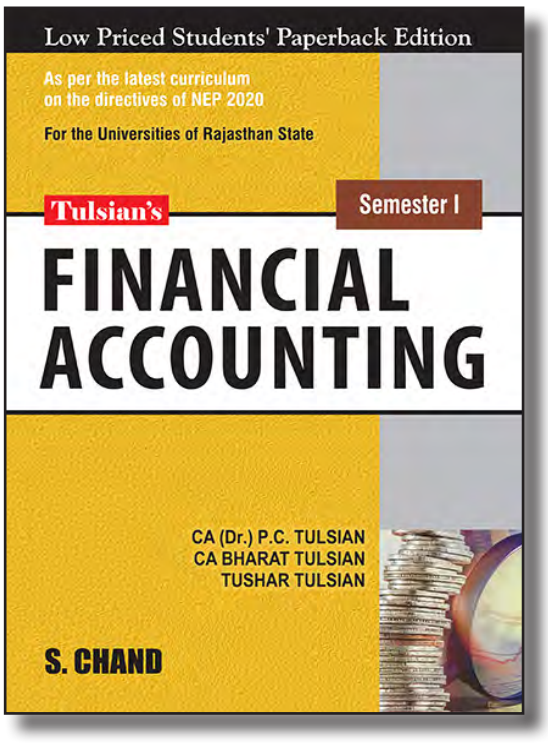
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- Over 60 distinctions have been provided for a better comparative study

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16: Amalgamation of Companies
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18: Corporate Financial Reporting
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National Education Policy 2020




# Tulsian's Financial Accounting: Semester I

## (As per the latest curriculum on the directives of NEP 2020–For the Universities of Rajasthan State)

CA & Dr. P.C. Tulsian, Tushar Tulsian & CA Bharat Tulsian

### About the Book

This book has been primarily designed to meet the needs of B.Com. first semester students for the Universities of Rajasthan State under the recommended National Education Policy 2020 (NEP 2020). It comprehensively covers the major paper, namely, Financial Accounting. The book acquaints the students to provide Basic Knowledge of Accounting; Accounting Principles and Policies; Accounting Process and Financial Statements. It includes detailed discussion on Departmental Accounting; Branch Accounting; Insurance Claims; Accounting from Incomplete Records; Accounting for Hire Purchase, Instalment Purchase and Accounting for Lease as per AS 19. The book has been written in simple and lucid manner covering all the important equations, formulae and practical steps in a systematic manner to aid students learning. Based on the author's proven approach 'teach yourself ' style, the book is replete with numerous illustrations, exhibits and solved problems.

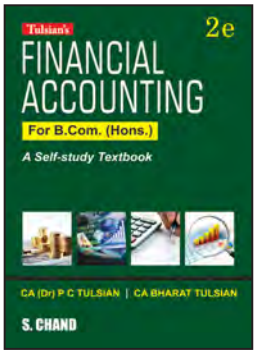
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9. Accounting for Investments
10. Accounting for Hire Purchase
11. Accounting for Instalment Purchase
12. Accounting for Leases as Per AS 19




## Financial Accounting For B.Com. (Hons.), 2e

P.C. Tulsian & Bharat Tulsian

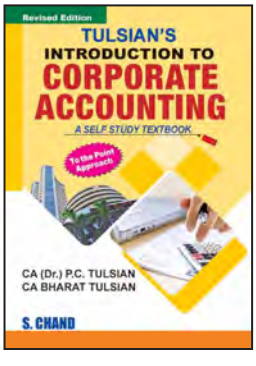
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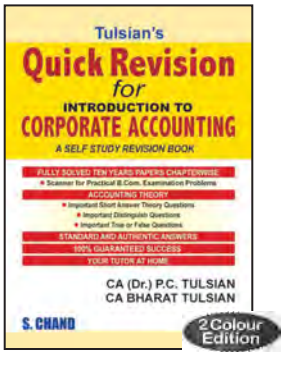
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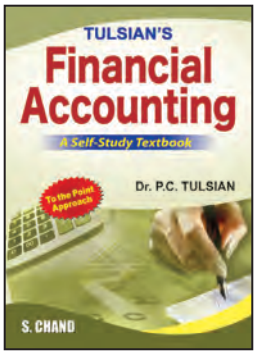

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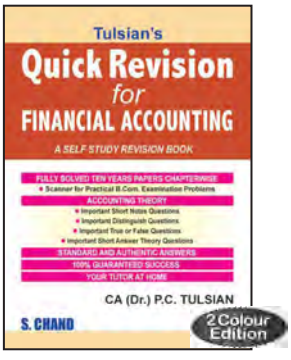
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## Financial Accounting With Quick Revision

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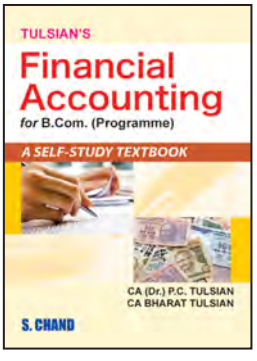

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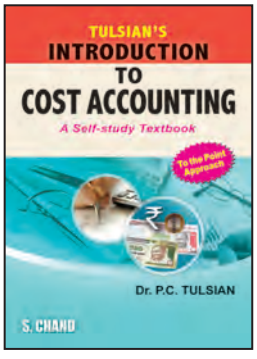

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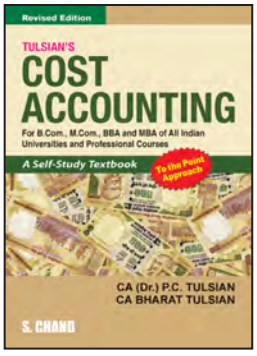

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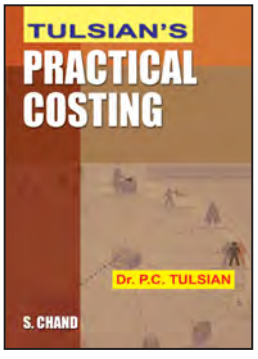

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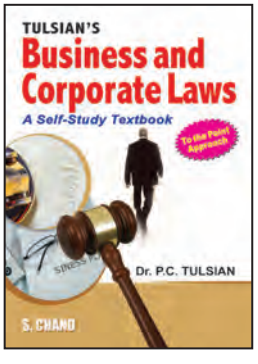

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## Business and Corporate Laws

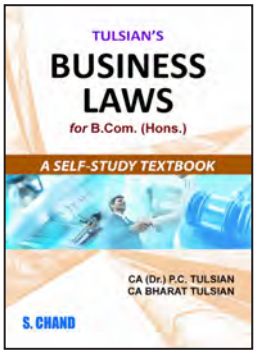
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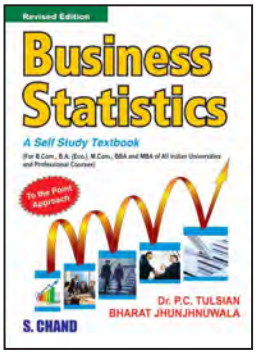

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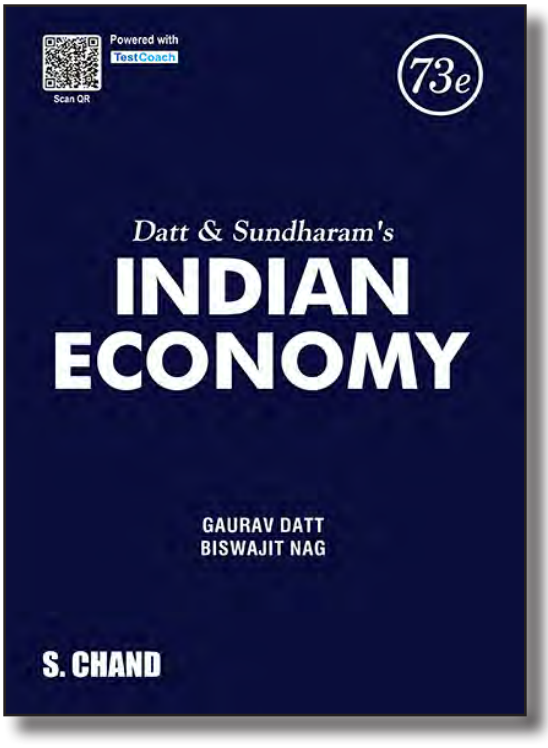
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# INDIAN ECONOMY, 73e

Gaurav Datt | Biswajit Nag

## About the Book

This revised edition of Datt and Sundharam's Indian Economy presents an up-to-date review of trends and issues framing the development of the modern Indian economy. This comprehensive update involved a complete rewrite of the original book as part of the endeavour to promote a critical understanding of the ever-changing canvass of opportunities and challenges facing the Indian economy.

This edition represents a fresh attempt to study the evolving journey of the increasingly complex Indian economy from a contemporary vantage point while retaining a longer-term historical perspective. Divided into five parts, the book begins with an overview of the Evolving Structure of the Indian Economy, which introduces India as a developing economy, and discusses its economic growth, demographic trends, human development, infrastructure and the environment. The second part delves into India's Planning System and Evolution of Economics Sectors. As areas of national concern, the topics of Poverty, Inequality, Employment and Social Security are taken up in the third part. The fourth part on the Fiscal-monetary system and India's Financial Sector discusses key aspects of India's fiscal, monetary and financial sector policy, including a detailed review of the Union Budget 2023-24. The final part focuses on Trade, Technology and Globalisation discussing issues related to trade policy, foreign direct investment, India's interface with the World Trade Organisation, participation in global value chains, and the state of technology in the context of India's emergence on the global economic stage.

With the marshalling of large amounts of data in an array of tables, graphs, charts, and boxes explaining key concepts and special topics, the book is informative, engaging, visually appealing and facilitates better understanding of the evolving complexities of the Indian economy along with the potential and limits of economic policy in the country. The revision has been developed according to the curriculum of the National Education Policy 2020 and caters to the academic requirements of undergraduate Economics students. The findings from contemporary literature/research covered in the book will help the Post graduate students and researchers from economics, commerce and finance streams. It will also be a useful resource for the aspirants appearing for various competitive examinations.

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- Latest updates and analysis of Union Budget 2023-24
- Detailed review and assessment of a wide range of topics including
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  - the chequered experience of economic growth, poverty and inequality
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4. Human Development in India
5. India's Infrastructure: An Overview
6. The State of India's Environment

Part II: India's Planning System and Evolution of Economic Sectors

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8. India's Agricultural Sector
9. Pattern of Industrial Development
10. Growth of the Service Sector

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13. Healthcare in India
14. Education
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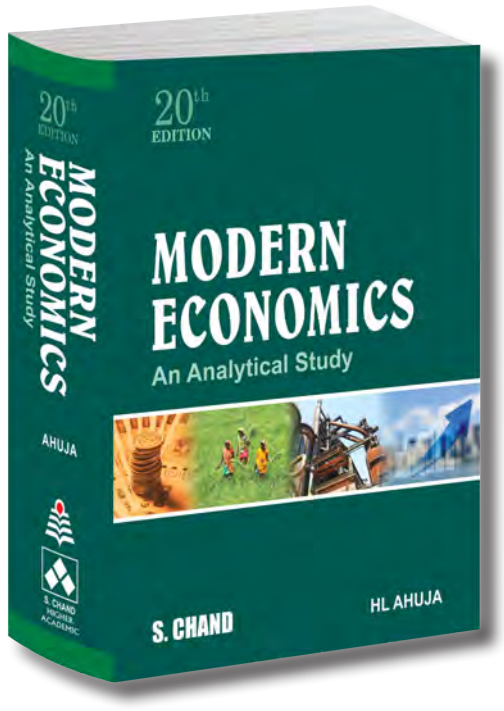
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26. The State of India's Technology


**Gaurav Datt,** Associate Professor, Centre for Development Economics and Sustainability, Department of Economics, Monash University, Melbourne (Australia).

**Biswajit Nag,** Professor of Economics, Indian Institute of Foreign Trade (IIFT), New Delhi (India)




# Modern Economics, 20e

H L Ahuja

LIBRARY EDITION HARDBACK

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In its 20th edition, this trusted definitive text is a comprehensive treatise on modern economics. It discusses in detail microeconomics, macroeconomics, monetary theory and policy, international economics, public finance and fiscal policy and above all economics of growth and development. The book has been exhaustively revised to provide students an in-depth understanding of the fundamental concepts and is streamlined to focus on current topics and developments in the field.

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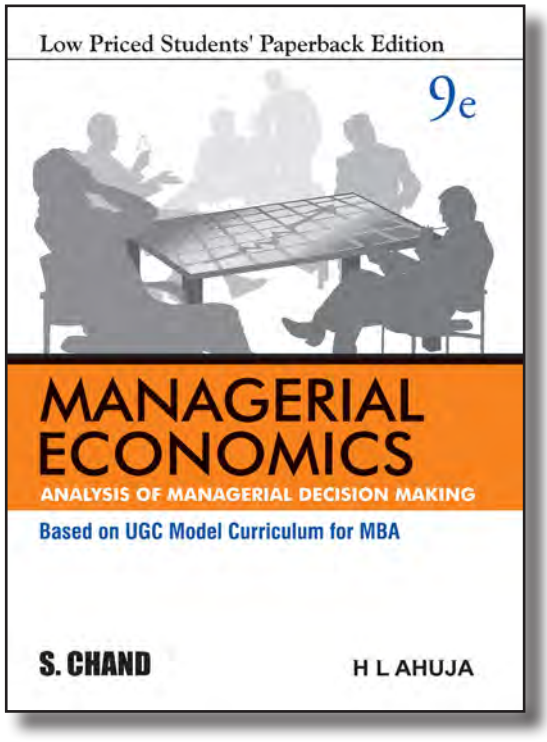
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# Managerial Economics, 9e (LPSPE)

H L Ahuja

## About the Book

Widely acknowledged, this popular and detailed text is a comprehensive treatise on Managerial Economics - both micro and macro-economic aspects. This text ensures a thorough understanding of core concepts before advancing to provide an expanded treatment of topics. It explains the economic environment and the impact on managerial decisions regarding price & output determination in different market structures followed by an account of the behaviour of individuals under conditions of uncertainty.

## Key Features

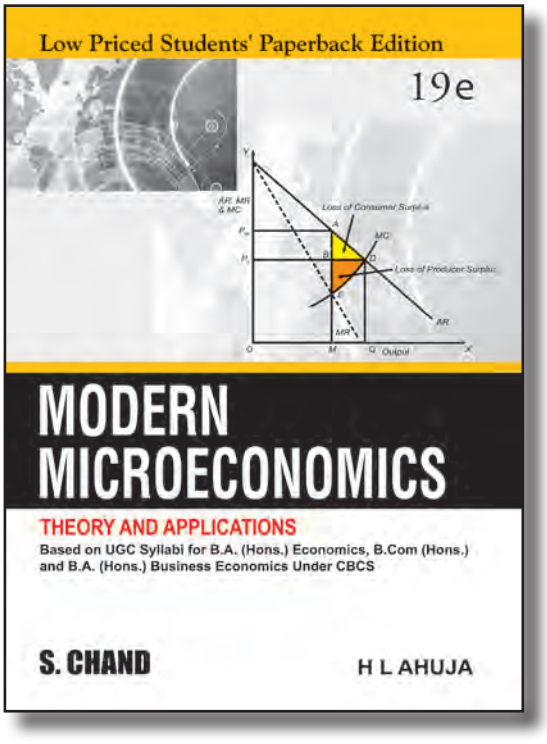
- Recent data of Balance of Payments
- Up-to-date explanation of the changes in GDS and GDCF and valued added method to measure national income in India by CSO
- Contemporary discussion on the role of Government borrowing for financing economic development and the concept of fiscal deficit

**ISBN: 9789355010674 | Price: ₹ 799 | Pages: 1,160**
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Part-I: Managerial Economics: Nature, Scope and Optimisation Techniques • The Nature and Scope of Managerial Economics • Basic Model of the Firm and Role of Profits • Optimisation: Concepts and Techniques • Marginal and Incremental Analysis Part-II: Demand Analysis and Theory of Consumer's Choice • Demand and Demand Function • Elasticity of Demand • Consumer's Behaviour: Cardinal Utility Analysis • Indifference Curve Analysis of Demand • Revealed Preference Theory of Demand • Demand Estimation • Demand Forecasting Part-III: Theory of Production and Cost Analysis • The Theory of Production: Returns to a Variable Factor • Production Function with Two Variable Inputs • Optimum Input Combination • Cost Analysis • Break-Even Analysis (Cost-Volume Profit Analysis) • Linear Programming • Supply and its Elasticity Part-IV: Pricing and Output Decisions in Various Market Structures • Market Structures and Price and Output Determination Under Perfect Competition • Pricing and Output Decisions under Monopoly • Pricing and Output Decisions under Monopolistic Competition • Price and Output Determination under Oligopoly • Non-Price Competition: Advertising Expenditure • Government Policies Towards Monopoly and Competition Part-V: Pricing Practices and Strategies, Managerial and Behavioural Models of The Firm • Cost-Plus (or Mark-up) Pricing • Price Discrimination • Pricing of Multiple Products • Transfer Pricing • Pricing in Non-Profit Enterprises, Ramsey Pricing and Peak-Load Pricing • Sales Maximisation Model of Oligopoly Firm • Managerial Theories of the Firm: Marris and Williamson's Models • Behavioural Model of the Firm (Satisficing Theory of the Firm) • Theory of Games and Strategic Behaviour Part-VI: Capital Budgeting and Decision Making Under Risk and Uncertainty • Capital Budgeting: Long-term Investment Analysis • Cost of Capital • Decision Making Under Risk and Uncertainty • Decision Making Under Risk and Uncertainty (Continued) Part-VII: Macroeconomics for Management • Macroeconomics: Issues and Concepts • Macroeconomic Aggregates: Aggregate Consumption, Gross Domestic Saving and Capital Formation • National Income Aggregates (GDP & GNP) and their Measurement • Determination of National Income: Keynes's Two Sector Basic Model • Determination of National Income with Government and Foreign Trade: Three Sector and Four Sector Models • Consumption and Investment Demand • Money Supply, Money Demand and Money Market Equilibrium • The IS-LM Curve Model (Synthesis of Monetary and Real Factors) • Aggregate Demand and Aggregate Supply: Flexible Price Model • International Economic Linkages and Mundell-Fleming Model • Inflation: Nature and Causes • Analysis of Business Cycles • Economic Stabilisation: Fiscal Policy • Economic Stabilisation: Monetary Policy • Monetary Policy and Economic Growth with Special Reference to India • Role of Fiscal Policy in Economic Development: Taxation • Role of Fiscal Policy: Government Borrowing for Financing Development

**H L Ahuja** A distinguished academician, is a distinction holder in MA Economics. He was the recipient of McConnel Levin prize from Punjab University for his paper "Investment Criteria in Development Planning". He continued his academic pursuit and received his doctorate from Delhi University in 1982 for his thesis ';Development Strategy for a Labour Surplus Economy'. An eminent professor, Dr Ahuja has taught Advanced Economic Theory (Micro and Macro), Development Economics and Problems of Indian Economy to postgraduate students at the Kurukshetra University. He subsequently taught at Zakir Husain Delhi College, Delhi University, where he taught Micro and Macro Economic Theories, Development Policy and Indian Economy. He was a member of the Academic Council of Delhi University for a period of five years (1987-92). A prolific writer, Dr Ahuja has more than a dozen books to his credit.




# Modern Microeconomics, 19e (LPSPE)

H L Ahuja

## About the Book

This book is designed as the updated syllabus of B.A.(Hons.) Economics and B.Com. (Hons.) of the universities. Also added various topics of UGC new syllabi of B.A. (Hons.) Economics, B.Com. (Hons.) and B.A. (Hons.) Business Economics under the ';Choice Based Credit System' (CBCS) which is to be adopted by all India Universities. It explains the use of graphs in economics, various types of curves and measurement of their slopes, the concept of function, both linear and power functions, the concept of derivatives and the use of differential calculus as optimising technique for solving the problems of maximisation and minimisation in economics. This book will help the students to understand various economic theories better as economics in recent years has become increasingly mathematical.

This book will also be of immense use for professional courses such as Business Economics, BBA, CA, ICWA and for the candidates preparing for all India and State level competitive examinations such as IAS, IES and allied services.

## Key Features

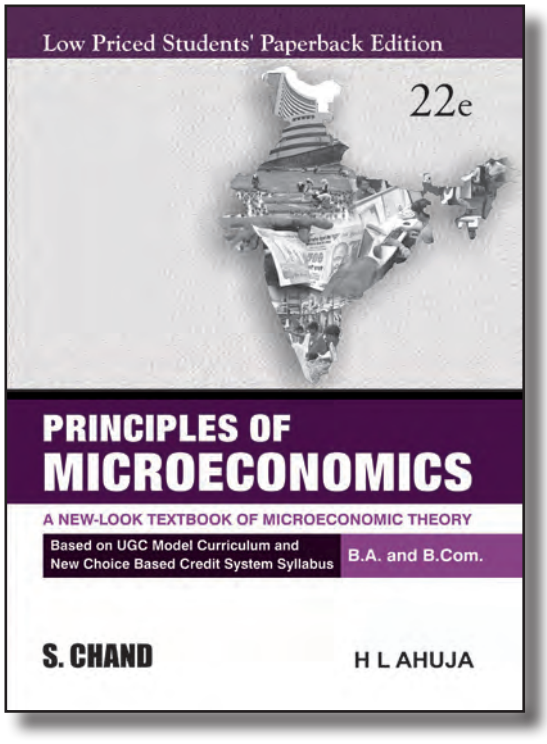
- Important additions and elaborations in the new edition - phenomenon of 'poverty amidst plenty', compensating variation in income and equivalent variation in income, Hicksian analysis of wage-determination under collective bargaining in terms of employer's concession curve and labour union's resistance, tragedy of commons
- Inclusion of a new chapter on Consumer Surplus, Producer Surplus and Competitive Market and Taxation (Chapter 7B) which explains assumed economic efficiency of perfectly competitive market economy
- Exclusive chapter on 'The Use of Mathematical Concepts, Graphs and Other Techniques in Economics' which enables better understanding among students as economics has increasingly become mathematical in recent years

**ISBN: 9789355011015 | Price: ₹ 699 | Pages: 976 | Size: 6.75" X 9.5" (Paperback)**

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Part-I: Scope and Methodology of Economics: 1. The Economic Problem: Scarcity and Choice, 2. Production Possibility Curve, Choice and Opportunity Cost, 3. The Scope of Economics, 4. The Science of Economics and its Methodology, 5. Basic Competitive Model and the Role of Price Mechanism, 6. Alternative Economic Systems and Market-Friendly New Economic Reforms, Part-II: The Theory of Demand: 7. Demand, Supply and Market Equilibrium, 7A. Applications of Demand and Supply Analysis, 7B. Consumer Surplus, Producer Surplus and Competitive Market and Taxation, 8. Consumer's Behaviour: Cardinal Utility Analysis, 9. Indifference Curve Analysis of Consumer's Demand, Appendix-A to Chapter 9: Indifference Curves of Goods and Bads, Appendix-B to Chapter 9: Slutsky Substitution Effect, 10. Cardinal Utility Analysis vs. Indifference Curve Analysis, 11. Some Important Applications of Indifference Curves, 11A. Labour Supply and Saving Decisions, 12. Revealed Preference Theory of Demand, 13. Elasticity of Demand, Appendix to Chapter 13: Applications of Elasticity of Demand, 14. Consumer Surplus, Part-III: The Theory of Production and Cost: 15. Factors of Production, 16. The Theory of Production: Returns to a Factor, 17. Production Function with Two Variable Factors, 18. Optimum Factor Combination, 19. Cost of Production and Cost Curves, 20. Elasticity of Supply, Part-IV: The Theory of Firm and Pricing in Various Market Structures: 21. Main Market Forms and Concepts of Revenue, Appendix to Chapter 21: Mathematical Treatment of AR and MR Curves, 22. Objectives of the Firm and its Equilibrium – A General Analysis, 23. Equilibrium of the Firm and Industry under Perfect Competition, Appendix to Chapter 23: Firm's Equilibrium under Perfect Competition under Differential Cost Conditions, 24. Price Determination under Perfect Competition, 25. Stability of Equilibrium and Cobweb Model, 26. Price and Output under Monopoly, 26A. Government Policies towards Monopoly and Competition, 27. Price Discrimination, Appendix to Chapter 27: Peak-Load Pricing and Two-Part Tariff Pricing, 28. Price and Output under Monopolistic Competition, 29. Price and Output under Oligopoly, Appendix to Chapter 29: Cournot's and Chamberlin's Models of Oligopoly, 30. Sales Maximisation Model of Oligopoly, 31. Theory of Games and Competitive Strategy, Part-V: The Theory of Distribution: 32. The Theory of Distribution: A General View, 33. Wage Determination in Competitive and Imperfectly Competitive Markets, Appendix to Chapter 33: An Application of the Theory of Wages, 34. The Theory of Rent, 35. Alternative Theories of Interest, 36. The Theory of Profits, Part-VI: General Equilibrium Analysis Welfare Economics and Markets with a Symmetric Information: 37. General Equilibrium Analysis, 38. Welfare Economics: An Introduction, 39. Economic Efficiency and Pareto Optimality, 40. Market Failures, Externalities and Public Goods, 41. New Welfare Economics: Compensation Principle, 42. Social Welfare Function, 43. Markets with Asymmetric Information, 44. Choice Under Risk and Uncertainty

LOW PRICED STUDENTS' PAPERBACK EDITION




## Principles of Microeconomics, 22e (LPSPE)

H L Ahuja

Instructor's Resource available

### About the Book

The book makes a comprehensive and analytical study of theories of demand, production/ cost and determination of price and output of products in different market structures. It also discusses theory of factor pricing and income distribution as wages, rent, interest and profits. Above all, it critically analyses the conditions of economic efficiency and maximum social welfare and causes of market failures. It takes a further lead with this revision by aligning its contents with the prescribed UGC model curriculum and new Choice Based Credit System (CBCS) syllabus.

### Key Features

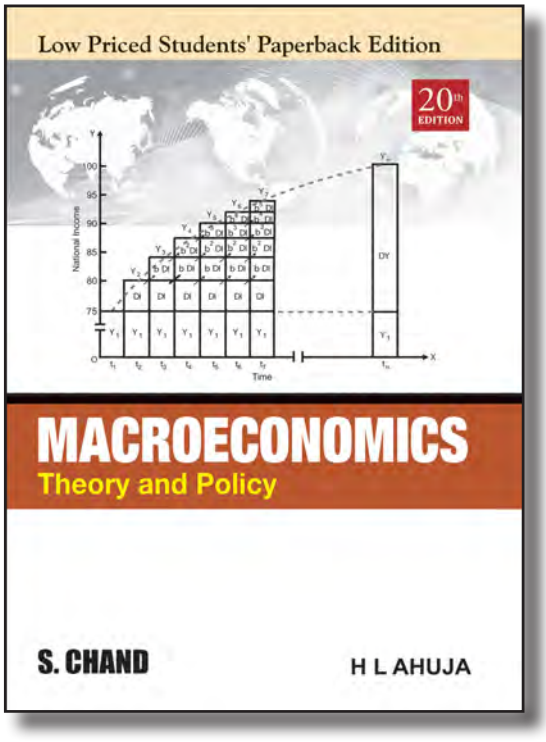
- Syllabi Relevant: Updated and revised topics as per UGC model curriculum and new Choice Based Credit System (CBCS) syllabus
- New Chapters: Production Process and Profit-Maximising Behaviour of firms; Economic Efficiency of Perfect Competition; Remedies of Monopoly; Market Failures and its Sources; Externalities and Market Failure; Public Goods and Market Failure; Problem of Imperfect Information and Market for Lemons and Social Choice and Role of Government
- Student Friendly Features: Clear and comprehensive presentation and extensive use of graphs to understandably illustrate the economic principles

**ISBN: 9789352837311 | Price: ₹ 595 | Pages: 872 | Size: 6.75" X 9.5" (Paperback)**

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**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.




# Macroeconomics, 20e (LPSPE)

H L Ahuja

## About the Book

*Macroeconomics - Theory and Policy* provides a comprehensive coverage of all the important theories and policies of macroeconomics. The book is an exhaustive text for understanding all the relevant concepts and current developments in the subject. It traces the relevance of Keynesian theories to the developing economies and has critically examined the post-Keynesian developments.

## Key Features

- Incorporates the latest trends and tendencies in macroeconomic analysis and policy
- Wide coverage of theories of economic growth and the relevance of these theories in the context of developing economies
- Extensive graphical illustration for easy understanding of topics

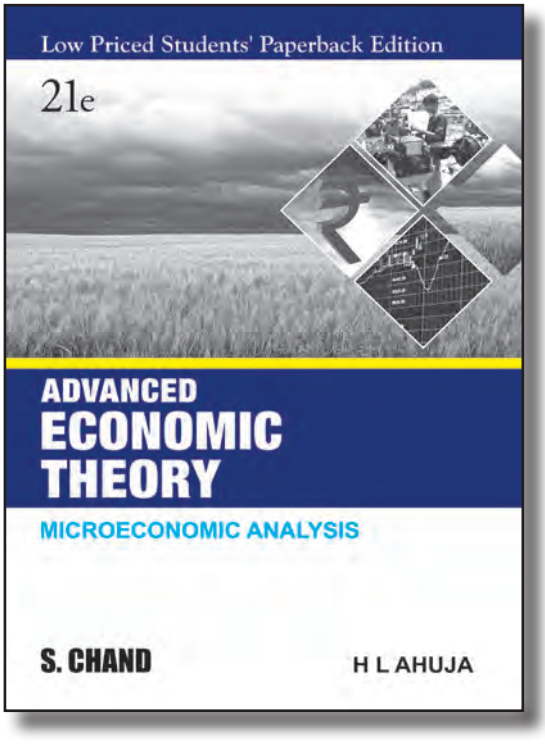
**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.

**ISBN: 9789352837328 | Price: ₹ 625 | Pages: 952 | Size: 6.75" X 9.5" (Paperback)**

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LOW PRICED STUDENTS' PAPERBACK EDITION




# Advanced Economic Theory, 21e (LPSPE)

H L Ahuja

## About the Book

This authoritative and comprehensive text is an advanced treatise on microeconomics. Featuring simplified mathematical treatment, the book covers a wide spectrum of theories and concepts aimed at effective understanding of advanced economic theory. This revised edition explores further the concept of economic efficiency and the concept of utility and its critique by Prof. Amartya Sen. It further includes an incisive analysis of Hicksian and Slutsky substitution effect. The revision also includes important distinctions and critical analysis of several functions expositing the latest developments in the field.

## Key Features

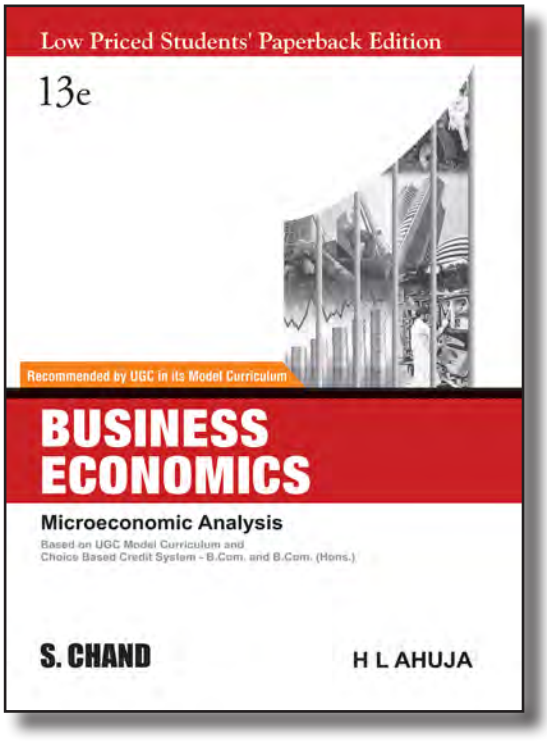
- New Topical Coverage: A critical analysis of economic efficiency under perfect competition and its market failures
- Advanced Treatment of Topics: Discussion on the choice of a risk averter and risk lover under conditions of risk and uncertainty
- Abundant Graphs and Figures: Facilitate understanding and recapitulation of concepts discussed

**ISBN: 9789352837335 | Price: ₹ 775 | Pages: 1368 | Size: 6.75" X 9.5" (Paperback)**

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# Business Economics, 13e (LPSPE)

H L Ahuja

## About the Book

The book provides conceptual understanding of essential concepts in business life. It details the foundations of business economics with special emphasis on demand analysis and consumer behaviour. It also discusses analysis of production and cost of the firm, market structures and pricing of products, factor pricing and income distribution and concludes with the discussion of capital budgeting. Based on the author's extensive teaching experience, the book champions a collaborative approach to delivering an appropriate textbook that is curriculum relevant.

## Key Features

- Syllabi Relevant: Caters to UGC's new CBCS syllabus and also to its earlier Model Curriculum
- New Topics: Study of destination between private and social costs, rule of thumb, for pricing followed under monopoly and imperfect competition, mark up pricing, marginal cost pricing, Ramsey's multi-product pricing, causes of market failure and role of Government intervention to correct market failure. The book also includes a critical analysis of Economic Efficiency under perfect competition.
- Diagrams and Graphs: They clearly illustrate theoretical concepts and enhance understanding of their practical application.

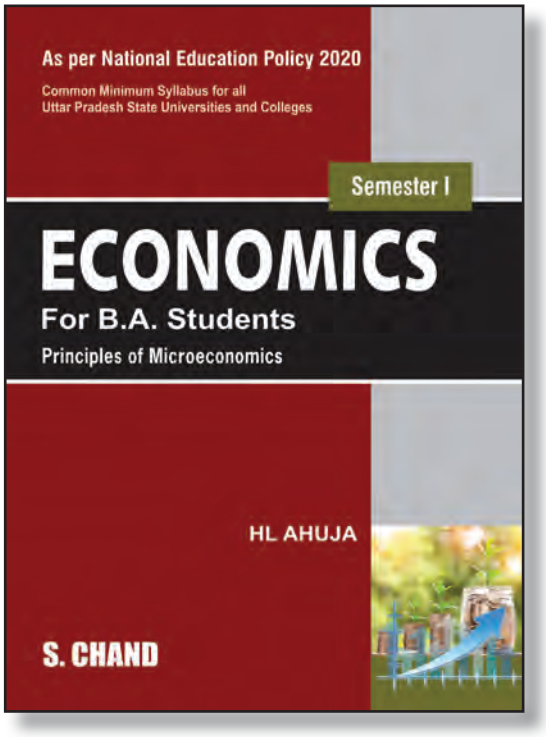
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Part-I: Nature and Scope of Business Economics: 1. Business Economics: Introduction, 2. Basic Problems of an Economy and Role of Price Mechanism, Appendix to Chapter 2: The Use of Mathematical Concepts, Graphs and Optimisation Techniques, Part-II: Demand Analysis and Consumer Behaviour: 3. Demand and Law of Demand, 4. Consumer's Behaviour: Cardinal Utility Theory, 5. Indifference Curve Analysis of Demand, 6. Revealed Preference Theory of Demand, 7. Consumer Surplus, 8. Elasticity of Demand, 9. Demand Forecasting, Part-III: Analysis of Production and Cost: 10. Production Analysis: Factors of Production, 11. Theory of Production: Returns to a Variable Factor, 12. Production Function with Two Variable Inputs, 13. Optimum Factor Combination, 14. Cost Analysis, 15. Break-Even Analysis, 16. Supply and its Elasticity, Part-IV: Market Structures and Pricing of Products: 17. Market Structures and Concepts of Revenue, 18. Objectives of Business Firms and their Equilibrium: A General Analysis, 19. Equilibrium of the Firm and Industry Under Perfect Competition, 20. Pricing in a Perfectly Competitive Market, 21. Consumer Surplus, Producer Surplus and Economic Efficiency of Perfect Competition, 22. Price and Output Under Monopoly, Appendix to Chapter 22: Measurement of Monopoly Power and Rule of Thumb for Pricing, 23. Price Discrimination, 24. Monopolistic Competition, 25. Price and Output Under Duopoly and Oligopoly, Appendix to Chapter 25: Classical Models of Oligopoly, 26. Pricing Practices: Full-cost (Mark-up) Pricing, Multi-product Pricing and Marginal Cost Pricing, Part-V: Market Failures and Government Intervention: 27. Market Failures and its Causes, 28. Externalities, Public Goods and Market Failure, 29. Asymmetric Information and Market Failure, 30. Government Intervention and Economic Efficiency, Part-VI: Capital Budgeting: Long-Term Investment Analysis: 31. Capital Budgeting: Analysis of Investment Projects, Appendix to Chapter 31, 32. Cost of Capital of Business Firms, 33. Cost-benefit Analysis, Part-VII: Factor Pricing and Income Distribution: 34. Factor Pricing and Theory of Income Distribution, 35. Determination of Wages, 36. Theory of Rent, 37. Theories of Interest, 38. Theories of Profits

**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.

LOW PRICED STUDENTS' PAPERBACK EDITION




# Economics for B.A. Students (Semester-I) ( NEP-2020-Uttar Pradesh)

H.L. Ahuja

## About the Book

This textbook has been conceptualized to meet the need of B.A. First Semester students of Economics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook comprehensively covers first semester paper Principles of Microeconomics. This textbook acquaints the students with the important concepts of microeconomics such as demand, supply & market equilibrium, theory of consumer's behaviour, theory of production & cost, theory of firm & pricing in perfect competition, price & output under monopoly & imperfect competition, theory of distribution and lastly welfare economics & economic efficiency

## Key Features

**Syllabi Relevant:** As per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020

**Coverage on Important Topics:** Indifference curve analysis of demand with an exclusive coverage on Slutsky substitution effect, cardinal utility analysis vs. indifference curves, production process and profit-maximising behaviour of firms, economic efficiency of perfect competition, drawbacks and remedies for monopoly, externalities and market failures, problem of imperfect information, and much more

**Abundant Graphs and Figures:** Facilitates understanding and recapitulation of concepts discussed

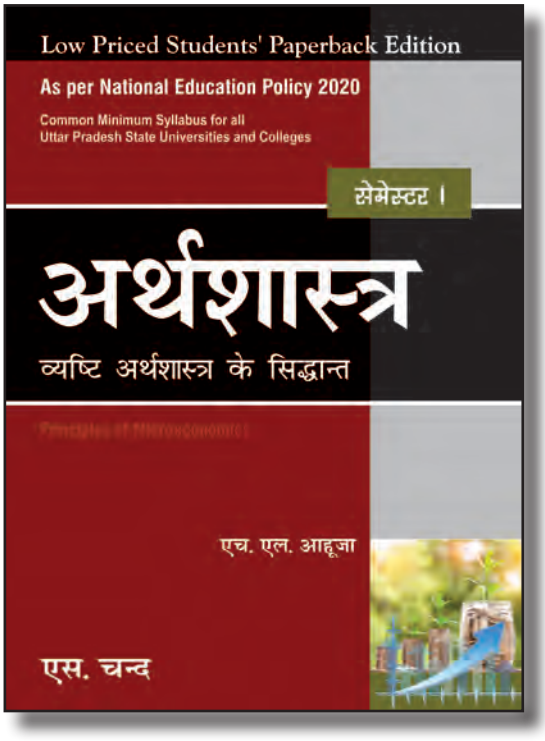
**ISBN: 9789355012210 | Price: ₹ 450 | Pages: 752 | Size: 6.75" X 9.5" (Paperback)**

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38: Pricing of Factors (Inputs) and Distribution of Income: A General View
39: Labour Market: Determination of Wages
40: Land Market and the Theory of Rent
41: Alternative Theories of Interest
42: Theory of Profits
43: Welfare Economics and Role of Value Judgements
44: Pareto Criterion and Economic Efficiency: General Equilibrium Approach
45: Kaldors Hicks' Welfare Criterion: Compensation Principle
46: Social Welfare Function

## Books as per National Education Policy (NEP) 2020
## Common Minimum Syllabus for all Uttar Pradesh State Universities

New




# अर्थशास्त्र: व्यष्टि अर्थशास्त्र के सिद्धान्त सेमेस्टर I ( NEP-2020-Uttar Pradesh)

एच.एल. आहूजा

### पुस्तक के विषय में

यह पुस्तक, नई शिक्षा नीति 2020 द्वारा अनुशंसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों तथा महाविद्यालयों के लिए समान न्यूनतम पाठ्यक्रम (Common minimum Syllabus) के आधार पर विकसित की गई है। इस पुस्तक मे नई शिक्षा नीति के अंतर्गत निर्देशित पाठ्यक्रम का पूर्ण रूप से समावेश है।

### प्रमुख विशेषताएँ:

- माँग के सिद्धान्त में मार्शल के गणनावाचक तुष्टिगुण और अनधिमान वक्रों के क्रमवाचक तुष्टिगुण के सिद्धान्तों की विस्तृत व्याख्या एवं उनकी तुलना।
- माँग के नवीन सिद्धान्त एवं उद्घाटित अधिमान सिद्धान्त की आलोचनात्मक विवेचना।
- पूर्ण प्रतियोगिता के मॉडल की कैल्डर तथा स्त्राफा द्वारा आलोचना की सरल ढंग से व्याख्या।
- कीमत-निर्धारण के एकाधिकार, एकाधिकारिक प्रतियोगिता तथा अल्पाधिकार के अनेक मॉडलों की विस्तार से विवेचना।
- सामान्य संतुलन विश्लेषण एवं कल्याण अर्थशास्त्र में परेटो मानदण्ड तथा पेरेटो अनुकूलतम का विस्तृत अध्ययन।
- सामाजिक कल्याण फलन का आलोचनात्मक विश्लेषण।

**ISBN: 9789355014900 | Price: ₹ 395 | Pages: 584 | Size: 6.75" X 9.5" (Paperback)**

### विषय-सूची

**भाग-1 आर्थिक सिद्धान्त का स्वरूप एवं विषय-क्षेत्र**
1. आर्थिक सिद्धान्त तथा दुर्लभता की समस्या
2. अर्थव्यवस्था की केन्द्रीय समस्याएँ तथा उत्पादन संभावना वक्र

**भाग-2 माँग का विश्लेषण**
3. गणनावाचक तुष्टिगुण विश्लेषण
4. माँग का अनधिमान वक्र विश्लेषण
5. अनधिमान वक्र विश्लेषण: कीमत, आय एवं प्रतिस्थापन प्रभाव
6. माँग की लोच
7. पूर्ति एवं पूर्ति की लोच
8. उपभोक्ता की बचत (अतिरेक)
8A. उत्पादक बचत
9. माँग का उद्घाटित अधिमान सिद्धान्त

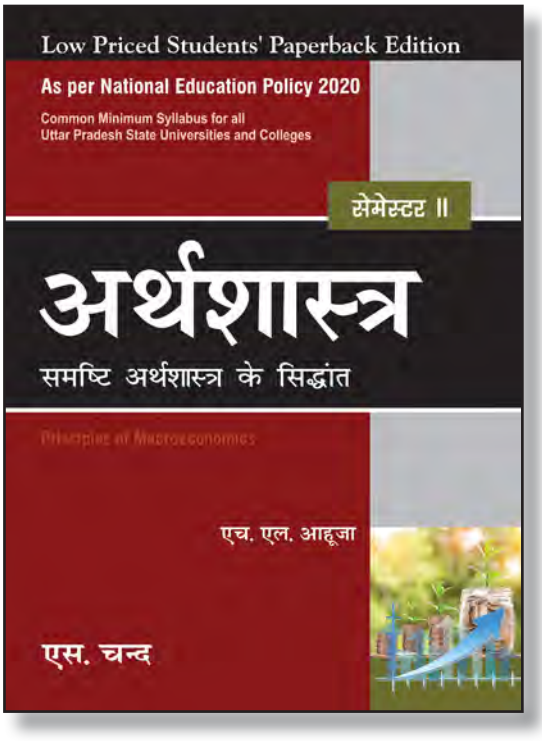
**भाग-3 उत्पादन तथा लागत सिद्धान्त**
10. उत्पादन का सिद्धान्त: परिवर्तनशील साधन के प्रतिफल
11. दो साधनों का उत्पादन फलन
12. अनुकूलतम साधन संयोग तथा पदार्थों का चयन
13. लागत वक्र

**भाग-4 मार्केट ढाँचा तथा कीमत-निर्धारण**
14. बाजार-ढाँचे तथा फर्म की आय की धारणाएँ
15. फर्म : इसके उद्देश्यों तथा संतुलन का सामान्य विश्लेषण
16. पूर्ण प्रतियोगिता के अन्तर्गत कीमत-निर्धारण : माँग-पूर्ति विश्लेषण
17. पूर्ण प्रतियोगिता के अन्तर्गत फर्म एवं उद्योग का संतुलन
18. एकाधिकार में कीमत-निर्धारण
19. कीमत-विभेदीकरण
20. एकाधिकारिक प्रतियोगिता मे कीमत-निर्धारण
21. अल्पाधिकार
22. खेल सिद्धान्त, कैदियों की द्विविधा तथा अल्पाधिकार

**भाग-5 असममित सूचना प्रतिकूल चयन और नैतिक जोखिम की समस्या**
23. बाजार असफलताएँ, बाह्यताएँ एवं सार्वजनिक वस्तुएँ
23A. असममित सूचना, प्रतिकूल चयन और नैतिक जोखिम

**भाग-6 कल्याणकारी अर्थशास्त्र**
24. कल्याणकारी अर्थशास्त्र तथा परेटो अनुकूलतम
25. क्षतिपूर्ति सिद्धांत तथा अन्य कल्याणकारी मापदण्ड
26. सामाजिक कल्याण फलन तथा सामाजिक चयन का सिद्धान्त

(NEP 2020, CMS, Uttar Pradesh State Universities)




# अर्थशास्त्र समष्टि अर्थशास्त्र के सिद्धांत

## सेमेस्टर-II ( NEP-2020-Uttar Pradesh)

New

एच. एल आहूजा

### पुस्तक के विषय में

यह पुस्तक, नई शिक्षा नीति 2020 द्वारा अनुशंसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों और महाविद्यालयों के लिए समान न्यूनतम पाठ्यक्रम (Common minimum Syllabus) के आधार पर, अत्यंत ही सरल और सुबोध भाषा में लिखी गई है। यह पुस्तक सिविल सेवा के अभ्यार्थियों के लिए भी उपयोगी है।

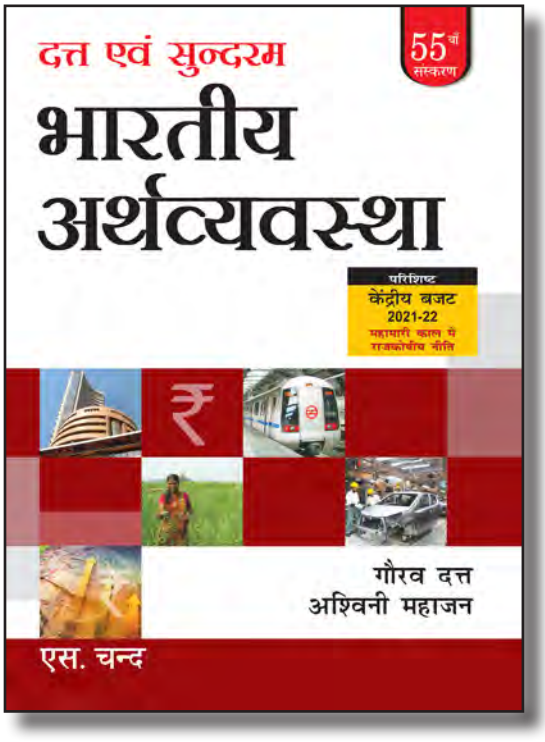
### प्रमुख विशेषताएँ:

- राष्ट्रीय आय संबंधी जटिल अवधारणाओं का अत्यंत सरल और रोचक भाषा में विवेचन।
- क्लॉसिकल और कीन्स के समष्टिपरक सिद्धांतों का स्तरीय आलोचनात्मक विवेचन।
- उपभोग (Consumption) और निवेश (Investment) संबंधी समष्टिपरक सिद्धांतों का विस्तारित विश्लेषण।
- मुद्रास्फीति की अवधारणा और संबंधी सिद्धांतों का गहन विश्लेषण।
- मुद्रास्फीति और बेरोज़गारी के अन्तर्संबंध पर आधारित फिलिप्स वक्र का तार्किक विवेचन।
- IS–LM मॉडल का अवधारणात्मक विवेचन।

**ISBN: 9789355013217 | Price: ₹ 395 | Pages: 368 | Size: 6.75" X 9.5" (Paperback)**

### विषय-सूची

1. समष्टि-अर्थशास्त्र: विषय-क्षेत्र एवं इसकी विभिन्न विचारधाराएं
2. राष्ट्रीय आय: अर्थ व धारणाएँ
3. आय तथा रोज़गार का प्रतिष्ठित सिद्धान्त: पूर्ण रोज़गार मॉडल
4. मजदूरी-कीमती परिवर्तनशीलता तथा रोज़गार
5. केन्ज़ का रोज़गार सिद्धान्त
6. राज़्ट्रीय आय का निर्धारण: केन्ज का दो क्षेत्रीय मौलिक मॉडल
7. सरकारी व्यय समेत राष्ट्रीय आय का निर्धारण: चार-क्षेत्रीय मॉडल
8. खुली अर्थव्यवस्था में राष्ट्रीय आय का निर्धारण: चार-क्षेत्रीय मॉडल
9. स्फीतिकारी तथा अवस्फीतिकारी अन्तर
10. उपभोग फलन
11. उपभोग के सिद्धात
12. निवेश
13. गुणक का सिद्धान्त
14. व्याज: प्रतिज़्ठित तथा ऋण-योग्य राशियों के सिद्धान्त
15. केन्ज के मुद्रा-माँग तथा ब्याज दर सिद्धान्त
16. IS-LM वक्र मॉडल
17. पतिवर्तनशील कीमत सहित समस्त पूर्ति तथा समस्त मांग सिद्धान्त
18. मुद्रा-स्फीति के सिद्धान्त
19. मुद्रास्फीति के प्रभाव तथा उसका नियन्त्रण
20. मुद्रास्फीति तथा बेरोज़गारी: फिलिप्स वक्र तथा विवेकपूर्ण प्रत्याशायें




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## पुस्तक के विषय में

इस पुस्तक में भारतीय अर्थव्यवस्था को एक व्यापक सर्वेक्षण प्रस्तुत किया गया है। इसमें थ्यवस्था के विभिन्न क्षेत्रों जैसे कृषि, उद्योग और सेवा क्षेत्र के साथ-साथ सकल देशीय उत्पाद, उसकी वृद्धि दर, बचत विनियोग इत्यादि का विश्लेषण भी किया गया है। हमारा सदैव यह प्रयास रहता है कि नए अध्याय जोड़ते हुए वर्तमान अध्यायों यथायोग्य संशोधन करें ताकि भारतीय अर्थव्यवस्था की उभरती समस्याओं और अवसरों की बेहतर समझ विकसित हो सके।

**मुख्य आकर्षण**

- केंद्रीय बजट 2021-22: महामारी काल में राजकोषीय नीति
- नीति आयोग
- थोक मूल्य सूचकांक के औचित्य पर बहस
- नई श्रृंखला पर आधारित राष्ट्रीय आय के अनुमान

**गौरव दत्त**, एसोसियेट प्रोफ़ेसर, अर्थशास्त्र विभाग, मोनाश विश्वविद्यालय, क्लेटन, ऑस्ट्रेलिया
**अश्विनी महाजन**, एसोसियेट प्रोफ़ेसर, अर्थशास्त्र विभाग, पी.जी.डी.ए.वी. कॉलेज, दिल्ली विश्वविद्यालय, दिल्ली

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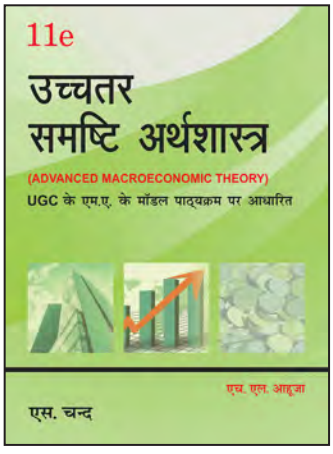
## विषय-सूची

**भाग-1: भारत में विकास एवं आयोजन की मूल धारणाएँ**

1. भारत-एक विकासशील अर्थव्यवस्था
2. भारत की राष्ट्रीय आय
3. जनसंख्या और आर्थिक विकास
4. भारत में मानव विकास
5. व्यवसायिक ढाँचा और आर्थिक विकास
6. भारतीय अर्थव्यवस्था में आधारसंरचना
7. सामाजिक क्षेत्र और सामाजिक आधारसंरचना
8. भारत में आर्थिक आयोजन
9. मिश्रित अर्थव्यवस्था में आयोजन की प्रक्रिया
10. भारतीय आयोजन में विकास की रणनीति
11. औद्योगिक नीति
12. सरकारी क्षेत्र और भारतीय आयोजन
13. सार्वजनिक उद्यमों का विनिवेश
14. राज्य के कार्यभाग की पुन: परिभाज़ा करना
15. निजीकरण और आर्थिक सुधार
16. वैश्वीकरण और इसका भारत पर प्रभाव
17. भारत में आयोजन: उपलब्धियों की समीक्षा
18. वित्तीय साधन और योजनाएँ
19. दसवीं पंचवर्षीय योजना (2002-2007)
20. ग्यारहवीं पंचवर्षीय योजना और समावेशी विकास
21. बारहवीं पंचवर्षीय योजना (2012-2017) का दृष्टिकोण
22. भारत में पूँजी-निर्माण की समस्या
23. विदेशी सहायता और भारत का आर्थिक विकास
24. गरीबी और भारत में आयोजन प्रक्रिया
25. भारत में बेरोज़गारी
26. भारत में आर्थिक शक्ति में असमानता
27. मूल्य, मूल्य-नीति और आर्थिक विकास
28. संतुलित क्षेत्रीय विकास

**भाग-2: भारतीय अर्थव्यवस्था के क्षेत्रीय पहलू**

29. कृषि, उत्पादिता प्रवृत्तियां और फसल प्रतिरूप
30. भारत में खाद्य सुरक्षा
31. हरी क्रान्ति
32. कृषि आदान और विधियाँ
33. भू-सुधार
34. जोत का आकार और उत्पादिता
35. भारत में ग्राम-ऋण की व्यवस्था
36. कृषि विपणन तथा भंडारण
37. सहकारिता और कृषि विकास
38. औद्योगिक ढाँचा और योजनाएँ
39. कुछ बड़े पैमाने के उद्योग
40. सूचना तकनालाजी उद्योग
41. लघु उद्यम
42. असंगठित क्षेत्र और भारतीय अर्थव्यवस्था का अनौपचारिकरण
43. भारत का विदेशी व्यापार
44. भारत का भुगतान-शेष
45. विशेष आर्थिक क्षेत्र
46. गैट, विश्व व्यापार संगठन और भारत का विदेशी व्यापार
47. औद्योगिक श्रम और इसका संगठन
48. श्रम समस्याएँ और श्रम-नीति
49. कृषि श्रम
50. भारतीय मौद्रिक प्रणाली
51. भारतीय वित्तीय प्रणाली: वाणिज्य बैंक-व्यवस्था
52. भारत में वित्तीय प्रणाली का सुधार
53. भारतीय वित्तीय प्रणाली: विकास बैंकिंग एवं वित्त संस्थान
54. रिजर्व बैंक ऑफ इण्डिया
55. केन्द्र और राज्यों के बीच वित्तीय सम्बन्ध
56. तेरहवां वित्त आयोग (2010-15)
57. चौदहवां वित्त आयोग (2015-20)
58. केन्द्र एवं राज्य सरकारों की बजटीय प्रवृत्तियाँ
59. विमुद्रीकरण के मद्देनज़र राजकोषीय नीति: 2018-2019 के केंद्रीय बजट का मूल्यांकन
60. भारत में सरकारी अर्थसाहाय्य




## उच्चतर समष्टि अर्थशास्त्र, 11e

### एच एल आहूजा

**पुस्तक के विषय में**

भारतीय विश्वविद्यालयों के एम.ए. (अर्थशास्त्र) एवं एम. कॉम. के विद्यार्थियों के लिए अत्यंत सरल एवं सुबोध भाषा में लिखी गयी यह पुस्तक सिविल सेवा के अभ्यर्थियों के लिए भी उपयोगी है।

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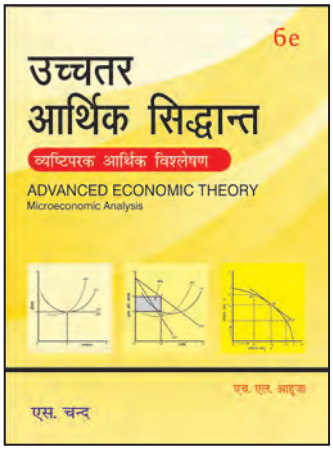
- 'अर्थिक विकास का नवीन सिद्धान्त: अन्तर्जात विकास मॉडल' नामक एक नया अध्याय दिया गया है।
- केन्ज़ के समष्टिपरक सिद्धान्तों की विवेचना के साथ केन्ज़ उपरान्त विभिन्न समष्टिपरक सिद्धान्तों की आलोचनात्मक व्याख्या
- विकासशील देशों में विकास के लिए राजकोषीय नीति तथा कराधान की विवेचना

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## उच्चतर आर्थिक सिद्धान्त, 6e

### एच एल आहूजा

**पुस्तक के विषय में**

भारतीय विश्वविद्यालयों के एम.ए. (अर्थशास्त्र) तथा एम.कॉम. के विद्यार्थियों के लिए अत्यंत सरल एवं सुबोध भाषा में लिखी गयी इस पुस्तक में आर्थिक सिद्धान्तों की नवीनतम तथा आधुनिक प्रवृत्तियों एवं दृष्टिकोणों की व्यष्टिपरक विश्लेषणात्मक व्याख्या की गयी है। इसमें न केवल माँग, उत्पादन, लागत तथा वितरण के सिद्धान्तों की बल्कि विभिन्न मार्केट ढाँचों में कीमत-निर्धारण एवं सामान्य संतुलन विश्लेषण तथा कल्याणकारी अर्थशास्त्र की आलोचनात्मक समीक्षा की गयी है। यह पुस्तक आई.ए.एस. एवं पी.सी.एस. के अभ्यर्थियों के लिए भी उपयोगी सिद्ध होगी।

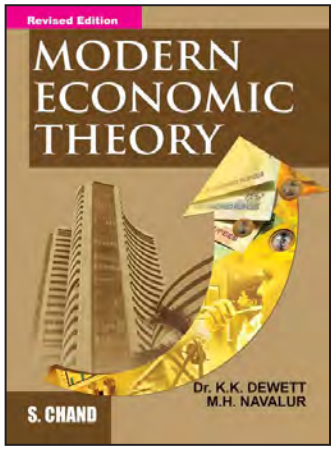
**प्रमुख विशेषताएं**

- अर्थव्यवस्था की केन्द्रीय समस्याओं तथा उत्पादन संभावना वक्र के उपयोग की विस्तार से व्याख्या।
- मुक्त मार्केट अर्थव्यस्था तथा उसके संचालन में कीमत प्रणाली की भूमिका का स्पष्टीकरण।
- रेखीय प्रायोजन के अन्तर्गत द्वैत समस्या तथा आहार समस्या का संशोधित विवरण।
- कीमत-निर्धारण के एकाधिकार, एकाधिकारिक प्रतियोगिता तथा अल्पाधिकार के अनेक मॉडलों की विस्तार से विवेचना।
- सामान्य संतुलन विश्लेषण एवं कल्याण अर्थशास्त्र में परेटो मानदण्ड तथा पेरेटो अनुकूलतम का विस्तृत अध्ययन।

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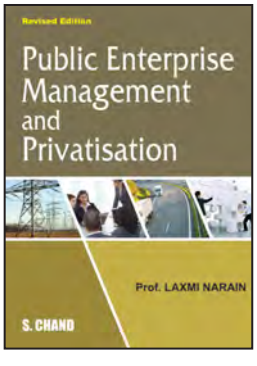
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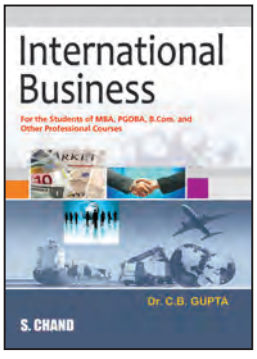

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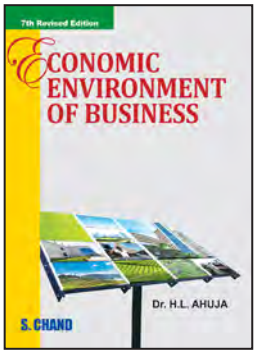

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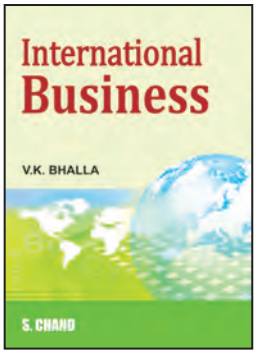

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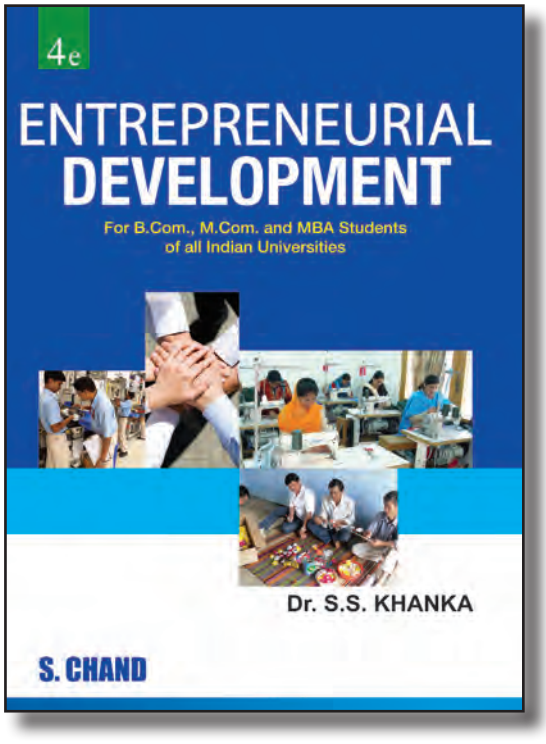

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## About the Book

The revised edition of *Entrepreneurial Development* explains, analyses and assesses various aspects and dynamics of entrepreneur, enterprise and entrepreneurship. The book presents various aspects of entrepreneurship and what a prospective entrepreneur should know before embarking on a business venture. The intents, content and nature of entrepreneurial studies and entrepreneurial development have undergone extensive changes over the years. Thus, the author has provided a systematic and comprehensive study of how entrepreneurial development and management have become instrumental in overall economic development and social welfare. Lucid and self-learning style of writing helps students understand the most difficult concepts in simple and easy-to-follow manner. It is developed for undergraduate students of commerce and business management, primarily.

## Key Features

- Chapter-end real life cases of entrepreneur reflecting theme of the chapter to provide optimum amalgamation of theoretical and practical aspects
- Rich pedagogy comprising 'Key Terms and Concepts', anecdotes, boxed items, caselets and couplets throughout the book to illustrate topics in authentic and convincing manner
- Wide range of questions to help students evaluate their knowledge- Self Assessment Questions, Discussion Questions and Class Assignments

**ISBN: 9788121918015 | Code: 1007C00307 | Price: ₹ 725 | Pages: 816 | Size: 6.75" X 9.5" (Paperback)**

## Contents

Part-I: Perspective
1. Entrepreneur
2. Entrepreneurship
3. Women Entrepreneurship
4. Rural Entrepreneurship
5. Tourism Entrepreneurship
6. Agri-Preneurship
7. Social Entrepreneurship
8. Family Business
9. Factors Affecting Entrepreneurship Growth
10. Entrepreneurial Motivation
11. Entrepreneurial Competencies
12. Entrepreneurship Development Programmes

Part-II: Start-Up
13. Micro and Small Enterprises
14. Opportunity Identification and Selection
15. Formulation of Business Plans
16. Project Appraisal
17. Financing of Enterprise
18. Forms of Business Ownership

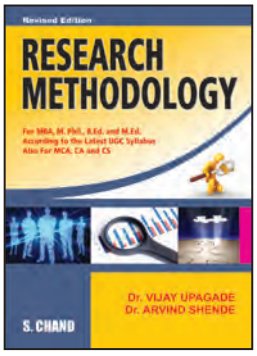
Part-III: Support
19. Institutional Finance to Entrepreneurs
20. Lease Financing and Hire Purchase
21. Institutional Support to Entrepreneurs
22. Taxation Benefits to Small-Scale Enterprises
23. Government Policy for Small-Scale Enterprises

Part-IV: Management
24. Fundamentals of Management
25. Working Capital Management
26. Inventory Management
27. Production Management
28. Marketing Management
29. Human Resource Management
30. Total Quality Management for Small-Scale Enterprises

Part-V: Development
31. Intellectual Property Rights (IPR) and Micro, Small and Medium Enterprises (MSMEs)
32. Accounting for Small Enterprises
33. Growth Strategies in Small-Scale Enterprises
34. Sickness in Small Enterprises
35. Export Documents and Procedure for Small Enterprises
36. Electronic Commerce and Small Enterprises
37. Franchising
38. Social Responsibility of Business (SRB)

- *Glossary of Key Terms*
- *Abbreviations*

**S S Khanka,** Professor (HR), University School of Management & Entrepreneurship, Delhi Technological University, Delhi.



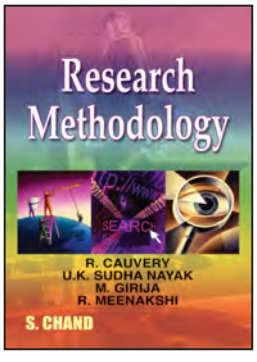

## Research Methodology

Vijay Upagade & Arvind Shende

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1. Introduction to Research Methodology, 2. Research Design, 3. Sample Design, 4. Methods of Data Collection, 5. Levels of Measurement and Scaling, 6. Processing of Data, 7. Hypotheses, 8. Analysis of Variance, 9. Chi-Square Test, 10. Research Report and Presentation, 11. Computer Application in Research



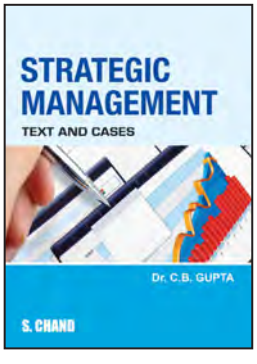

## Research Methodology

R Cauvery, U K Sudha Nayak, M Girija & R Meenakshi

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### Contents

1. Nature and Significance of Social Research, 2. Concepts of Social Science Research, 3. Stages in Research Process, 4. Hypothesis, 5. Theory and Facts of Social Science, 6. The Design of Research, 7. Methods of Data Collection-I, 8. Methods of Data Collection-II, 9. Sampling, 10. The Case Study Methods, 11. Survey Method, 12. Technique of Interviewing, 13. Questionnaire, 14. Schedule, 15. Data Processing, 16. Analysis and Interpretation of Data, 17. Scaling Techniques, 18. The Research Report, 19. Value Judgements



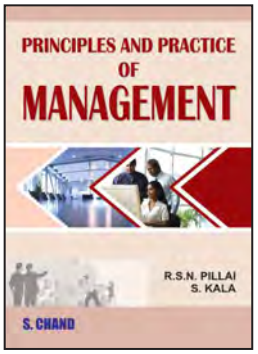

## Strategic Management

C B Gupta

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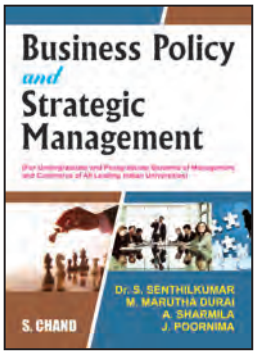

## Principles and Practice of Management

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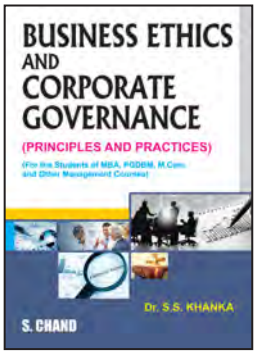

## Business Policy and Strategic Management

S Senthilkumar, M Marutha Durai, A Sharmila & J Poornima

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## Business Ethics and Corporate Governance

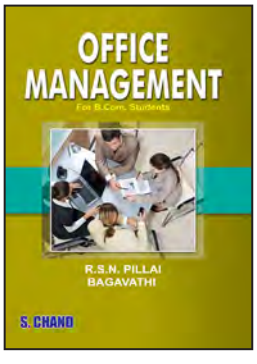
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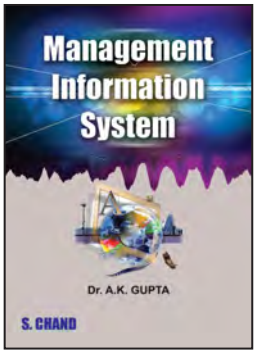

## Office Management

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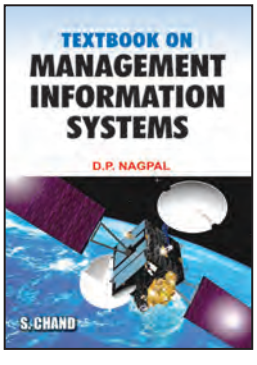

## Management Information System

A K Gupta

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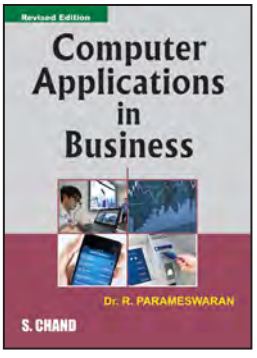

## Textbook on Management Information Systems

D P Nagpal

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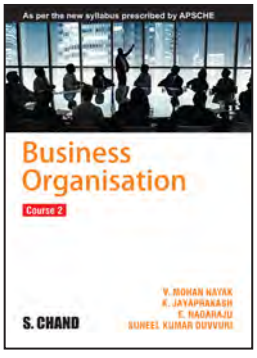

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## Business Organisation

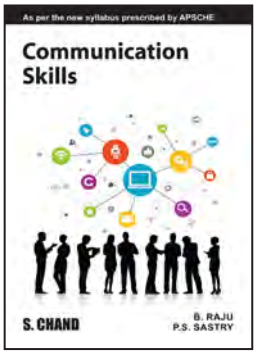
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## Communication Skills

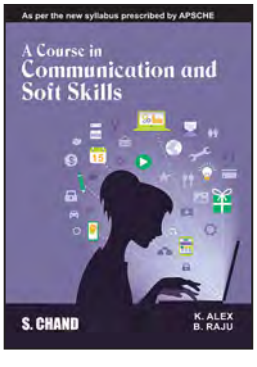
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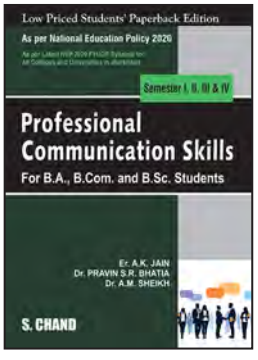
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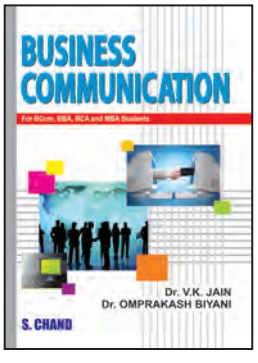
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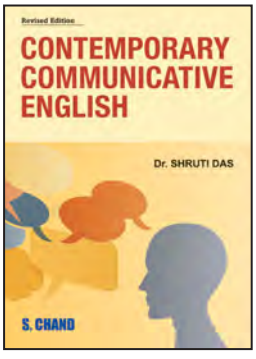

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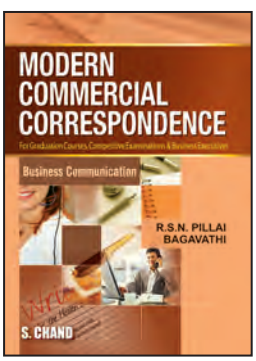

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Shruti Das

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### Contents

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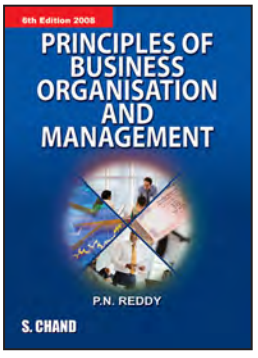

## Modern Commercial Correspondence

R S N Pillai & Bagavathi

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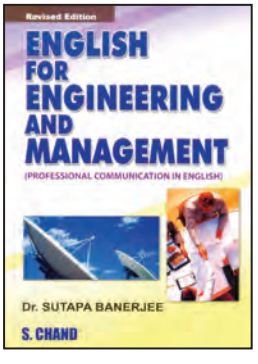

## Principles of Business Organisation and Management

P N Reddy

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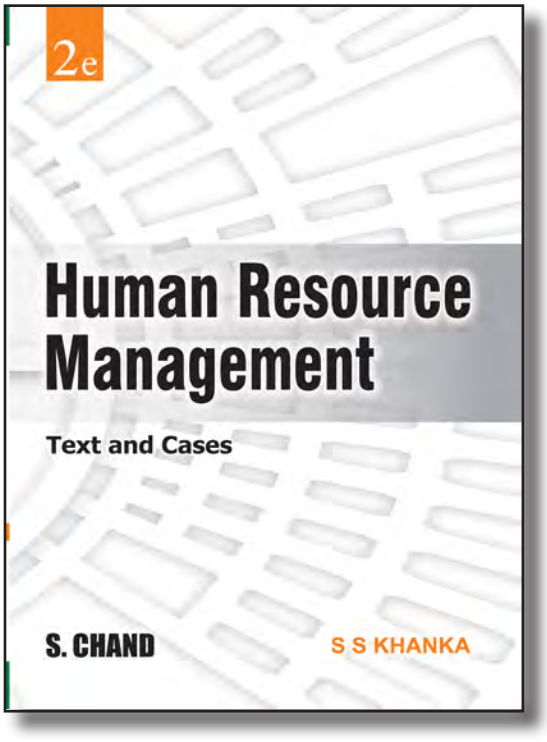

## English for Engineering and Management, 2e

Sutapa Banerjee

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# Human Resource Management, 2e

S S Khanka

Instructor's Resource available

## About the Book

The second edition continues to familiarize the students with the basic principles and techniques of human resource management. Comprehensively, this textbook highlights the importance of effective management of human resources which results not only in organisational effectiveness but also sustainable competitive advantage. With the coverage of contemporary topics such as HR Scorecard, Gen-Y Employees and Work-life Balance, it keeps the students abreast with the current human resource practices of the real world. This textbook caters to the requirements of management students and is also a useful resource for HR professionals.

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4: Strategic Human Resource Management (SHRM)

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5: Human Resource Planning (HRP)
6: Job Analysis and Design
7: Recruitment
8: Selection
9: Placement, Induction and Socialization

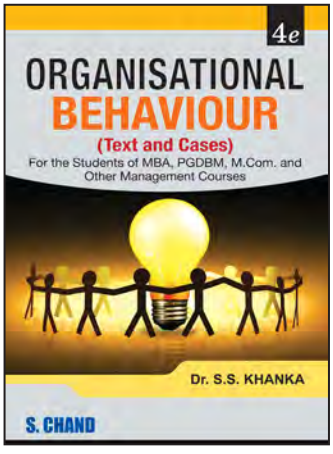
**Section III: Development**
10: Career Planning and Development
11: Employee Training
12: Executive Development
13:Organization Development (OD)
14: Internal Mobility and Separation

**Section IV: Maintenance and Retention**
15: Job Evaluation
16: Wage and Salary Administration
17: Incentives and Benefits
18: Motivation: Concepts and Application
19: Employee Empowerment
20: Workers' Participation in Management (WPM)
21: Employee Health and Safety
22: Social Security
23: Employee Discipline
24: Employee Grievance
25: Industrial Relations
26: Industrial Disputes
27: Trade Unions
28: Collective Bargaining
29: Performance and Potential Appraisal

**Section V: Control**
30: Human Resources (HR) Research and Audit
31: Human Resource Accounting
32: Human Resource Information System (HRIS)

**Section VI: Recent Trends In HRM**
33: International Human Resource Management
34: Competency-Based Human Resource Management
35: Work–Life Balance
36: Human Resource (HR) Scorecard
37: Managing Generation-Y Employees
38: Talent Management
39: Ethics in HRM

**S S Khanka,** Professor, University School of Management & Entrepreneurship, Delhi Technological University (DTU), Delhi.




## Organisational Behaviour, 4e

S S Khanka

Instructor's Resource available

### About the Book

*Organisational Behaviour* presents concepts and themes related to behaviour and performance of people and explains how they influence organisational effectiveness. Study of human behaviour in an organisation has garnered increased interest and concern in recent times as more and more organisations are trying to unleash the optimal potential of their most important resource, manpower. This book highlights the basic principles of human behaviour, including ethical and moral issues, in Indian context in a simple and lucid style. Post Graduate students of management and commerce courses will find the book extremely useful.

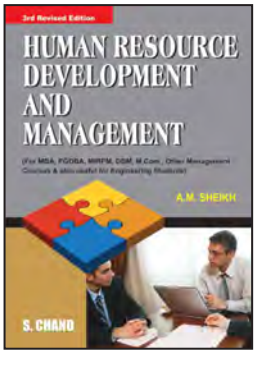
### Key Features

- Six new chapters in the revised edition
- Discussion on new topics such as attitude change, developing values, determinants, theories of job satisfaction, organisational commitment, attitudes, values and Job satisfaction, negotiations, and organisational conflicts
- Strong pedagogy comprising more than 100 figures and tables to illustrate the concepts and nearly 300 chapter end review questions to test the understanding of students

**ISBN: 9788121920148 | Code: 1007D00329 | Price: ₹ 650 | Pages: 576 | Size: 6.75" X 9.5" (Paperback)**

### Contents

**Part One: Foundation For Organisational Behaviour** (OB), 1. Introduction to Organisational Behaviour, 2. Organisational Behaviour in Historical Persepective, 3. Research in Organisational Behaviour, **Part Two: Individual Perspective**, 4. Foundation of Individual Behaviour, 5. Personality, 6. Perception, 7. Attitudes, Values and Job Satisfaction, 8. Learning, 9. Organizational Citizenship Behaviour (OCB), 10. Emotions and Moods, 11. Transactional Analysis (TA),12. Motivation: Concepts, 13. Motivation: Application, 14. Morale, **Part Three: Group Dynamics**, 15. Foundation of Group Behaviour, 16. Team Building, 17. Organisational Conflicts And Negotiations, 18. Job Frustration, 19. Job Stress, 20. Communication, 21. Leadership, 22. Power and Politics, PART FOUR: DYNAMICS OF ORGANISATION, 23. Introduction to Organisation, 24. Organisational Structure, 25. Organisational Theory, 26. Organisational Climate (OC), 27. Origanisational Culture, 28. Organisational Change and Development (OD), 29. Organisational Effectiveness (OE),30. Quality of Working Life (QWL), 31. International Organisational Behaviour



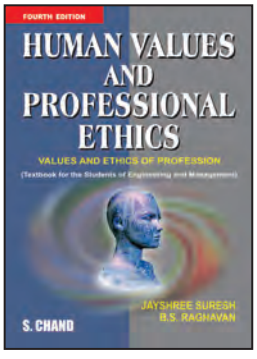

## Human Resource Development and Management, 3e

A M Sheikh

**ISBN: 9788121918053**
**Code: 1007B00309**
**Price: ₹ 475 | Pages: 384**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Human Resource Planning, 3. Job Analysis, 4. Acquisition of Human Resources, 5. Training and Development, 6. Human Resource Accounting, 7. Human Resource Development, 8. Human Resource Records, Audit and Research, 9. Development of Human Capacity, 10. Learning Organisation, 11. Human Resource Motivation, 12. Organisation Development and Change, 13. Group Behaviour, 14. Working Life and Its Quality, 15. Communication, 16. Leadership, 17. Workers' Participation In Management, 18. Promotion, Transfer and Career, 19. Counselling in Human Resource Management, 20. Job Evaluation, 21. Performance Appraisal, 22. Managing Stress & Conflict at Work Place, 23. Industrial Disputes, 24. Time Management, 25. Computer Applications in HRM, 26. HRM Scenario in 21st Century, 27. Manpower Statistics in India, 28. Transactional Analysis, 29. Equal Employment Opportunity, 30. Compensation Management, 31. Employees Benefits and Incentives, 32. Employee Welfare and Social Security • *Bibliography • Index*




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Jayshree Suresh &
B S Raghavan

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### Contents

1. Introduction, 2. Human Values, 3. Engineering Ethics, 4. Engineering as Social Experimentation, 5. Safety, Responsibilities and Rights, 6. Global Issues, 7. Professional Ethics • *Appendices: I: Framework to build 'customer delight' into work culture, II: Corporate Social Behaviour – Checklist of Indicators for Appraisal, III: Corporate Social Responsibility, IV: Code of Ethics for Project Mangers*




## A Textbook of Organisational Behaviour

C B Gupta

**ISBN: 9788121943017**
**Code: 1007000566**
**Price: ₹ 295 | Pages: 344**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

Part-I: Individual Behaviour: 1. Fundamentals of Human Behaviour, 2. Personality, 3. Perception, 4. Learning & Behaviour Modification, 5. Attitudes and Values, 6. Motivation, Part-II: Group Behaviour: 7. Interpersonal Behaviour and Transactional Analysis, 8. Group Dynamics, 9. Power, Politics and Status, 10. Leadership and Influence, 11. Control, 12. Morale and Job Satisfaction, Part-III: Overall Behaviour: 13. Nature and Types of Organisations, 14. Organisation and Environment, 15. Nature and Scope of Organisational Behaviour, 16. Organisational Goals, 17. Organisational Change, 18. Organisation Development, 19. Organisational Climate and Culture, 20. Organisational Conflict, 21. Organisational Effectiveness • *Text Questions* • *Case Study*




## Business Organisation and Management

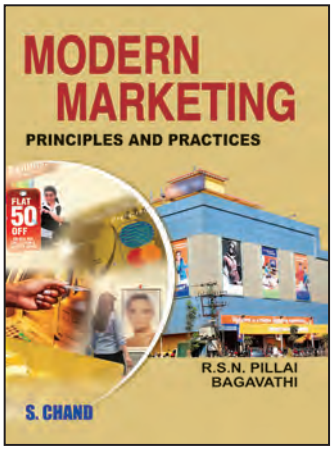
**(As per the latest curriculum on the directives of NEP 2020)**

Dr. Tilak Ch. Das

**ISBN: 9789358706826**
**Price: ₹ 299 | Pages: 288**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction, 2. Business Environment, 3. Strategic Planning and Organising, 4. Directing and Controlling, 5. Contemporary Issues in Management




## Modern Marketing

R S N Pillai & Bagavathi

### About the Book

The book emphasizes on the fact that marketing is an important functional aspect of business. It presents the basic concepts of marketing principles by integrating theory and practice. It has been written in a lucid and simple language with abundance of exercises, diagrams and tables to ease understanding of the subject. Both undergraduate and post graduate students of commerce stream will find the book very useful. It also caters to the requirement of management curriculum of Indian universities.

### Key Features

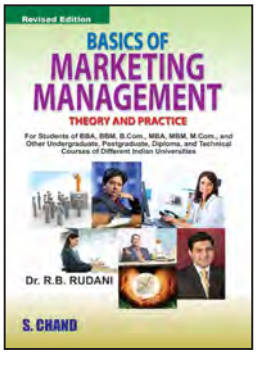
- Nine new chapters in the revised edition
- Over 400 university chapter end questions and nearly 50 case studies on relevant topics to give an insight into practical application of theory
- An appendix on "Online Advertising"

**ISBN: 9788121916974 | Code: 1007C00301 | Price: ₹ 650 | Pages: 608 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Market and Marketing, 2. Modern Marketing Concept, 3. Marketing System, Marketing Mix, Marketing Function, 4. Buying, Assembling and Selling, 5. Transportation, 6. Storage and Warehouses, 7. Standardisation and Grading, 8. Marketing Finance, 9. Marketing Risk, 10. Marketing Information and Research, 11. Marketing Management, 12. Marketing Strategy and Planning, 13. Marketing Environment, 14. Market Segmentation, 15. Market Targeting and Positioning, 16. Product Planning, 17. Managing the Product Development, 18. Price Strategy, 19. Product Related Strategy, 20. Consumer Behaviour, 21. The Indian Consumers, 22. Consumerism, 23. Law Relating to Sale of Goods, 24. The Promotional Programme, 25. Sales Promotion, 26. Advertising, 27. Personal Selling, 28. Sales Organisation, 29. Sales Force Management, 30. Control of Sales Force, 31. Sales Forecast, 32. Remuneration to Salesmen, 33. Channels of Distribution – I, 34. Channels of Distribution – II, 35. Marketing of Consumer Goods, 36. Marketing of Industrial Goods, 37. Marketing of Securities, 38. Marketing of Agricultural Goods, 39. The Marketing of Services, 40. Regulated Markets, 41. Organized Markets, 42. Co-Operative Marketing, 43. Marketing Control, 44. International Marketing, 45. Rural Marketing, 46. Marketing and Society, 47. E-Business, 48. Total Quality Management, 49. Recent Trend in Marketing • *Appendix*

**R S N Pillai,** Formerly, Professor and Head, Department of Commerce, Arignar Anna College, Aramboly, Kanyakumari.
**Bagavathi,** M Com, Kanyakumari.



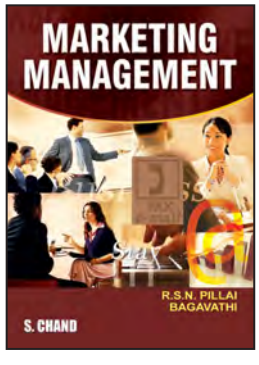

## Basics of Marketing Management

R B Rudani

**ISBN: 9788121931687**
**Code: 1007C00479**
**Price: ₹ 425 | Pages: 488**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction to Marketing, 2. Emerging Issues in Marketing, 3. Marketing Environment and Demand Forecasting, 4. Consumer Behaviour and Market Segmentation, 5. Product Decisions, 5a. Product-Related Strategies, 6. Pricing Decisions, 7. Market Promotion Mix, 7a. Advertising, 7b. Personal Selling and Sales Force Management, 7c. Sales Promotion, 7d. Publicity and Public Relations, 8. Physical Distribution and Channel of Distribution, 9. Marketing Information System and Marketing Research, 10. Rural Marketing, 11. Marketing of Services, 12. Elements of Retailing,13. International Marketing, 14. Marketing Control, 15. Analysing Competition, 16. Case Study – Marketing Cases and Analysis, 17. Project Report in Marketing – Practical Study • *Bibliography*




## Marketing Management

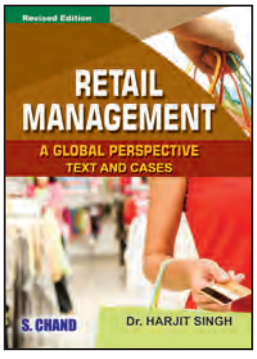
R S N Pillai & Bagavathi

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### Contents

Part-I: Fundamentals of Marketing: 1. Fundamentals of Marketing, 2. Marketing Environment, 3. Marketing Management, Part-II: Developing Marketing Strategy: 4. Marketing Strategy and Planning, 5. Marketing Segmentation, 6. Market Targeting and Positioning, 7. Marketing Information System, 8. Marketing Research, Part-III: Understanding Consumer Behaviours: 9. Consumer Behaviour, 10. The Indian Consumers, 11. Consumerism, Part-IV: Managing Products: 12. Managing the Product, 13. Managing the Product Development, 14. Pricing Strategy, 15. Product Related Strategy, Part-V: Communications Decisions: 16. The Promotional Programme, 17. Sales Promotion, 18. Advertising Management, 19. Marketing Control, 20. Public Relations, Part-VI: Managing Sales Forces: 21. Personal Selling, 22. Sales Organisation,

23. Sales Force Management, 24. Control of Sales Force, 25. Sales Forecast, 26. Remuneration to Salesmen, Part-VII: Management of Physical Distribution: 27. Channels of Distribution, 28. Management of Retail, 29. Marketing of Consumer Goods, 30. Marketing of Industrial Goods, 31. Direct Marketing, Part-VIII: Managing Marketing of Services: 32. The Marketing of Services, Part-IX: Recent Trends in Marketing: 33. International Marketing, 34. Marketing and Society, 35. Total Quality Management, 36. E-Business, 37. Rural Marketing, 38. New Trends in Marketing, 39. The Case Study Method • *Appendix : Online Adverting*




## Retail Management

Harjit Singh

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Instructor's Resource available

### Contents

Section-I: Retailing Introduction: 1. Introduction to Retailing, 2. Retailing Formats, 3. Consumer Behaviour, Section-II: Retailing Strategy: 4. Store Location, 5. Retail Marketing Segmentation, 6. Strategic Planning in Retail, 7. Financial Strategy, 8. Inventory Management, Section-III: Managing Merchandise: 9. Planning Merchandise Assortments, 10. Merchandise Buying Systems, 11. Managing and Retail Brand, 12. Presenting Merchandise, 13. Merchandise Pricing, Section-IV: Store Management: 14. Retail Store Operations, 15. Retail Loss Prevention, 16. Supply Chain Management, Section-V: Retail Communication: 17. Distribution Management, 18. HRM in Retail Sales, 19. Managing Store Employees, Section-VI: Future of Retailing: 20. Customer Service Strategies, 21. Retail Sales Promotion, 22. Retail Communication Mix, 23. Building Customer Relationships and Competitive Advantage, Section-VII: Mall Management: 24. Retailing Through Internet, 25. Career Opportunities in Retail, 26. The Road Ahead in India, 27. Mail Introduction, 28. Mall Management • *Cases* • *Glossary* • *Subject Index* • *Name Index*



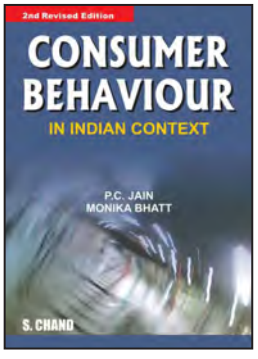

## Services Marketing and Management

B Balaji

**ISBN: 9788121921619**
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**Price: ₹ 465 | Pages: 448**
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### Contents

1. Concept of Service, 2. Service Characteristics, 3. Service Expectations, 4. The Service Product, 5. Service Location, 6. Pricing for Services, 7. Promotion Services, 8. The Service Process, 9. Physical Evidence, 10. People and Services, 11. Internal Versus External Marketing, 12. Service Design, 13. Service Demand and Supply, 14. The Service Delivery, 15. Service Quality, 16. Service Performance and Measurement, 17. Services Mix Scenario (7Ps), 18. Service Employees and Internal Marketing, 19. Customer Management and Service Guarantees, 20. Customer Retention and Relationship Marketing, 21. Service Leadership, 22. Service Profitability and Productivity, 23. International Marketing of Services, 24. Case Studies • *Appendix-I* • *Appendix-II*



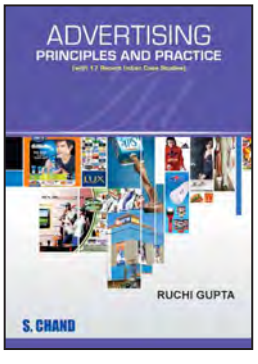

## Consumer Behaviour, 2e

P C Jain & Monika Bhatt

**ISBN: 9788121922142**
**Code: 1007B00344**
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**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Scope and Application, 3. Consumer Needs and Motivation, 4. Consumer as a Perceiver and Learner, 5. Influence of Personality and Attitudes on Buying Behaviour, 6. Consumer Psychographics, 7. Influence of Group Dynamics and Consumer Reference Groups, 8. Influence of Social and Economic Classes, 9. Influence of Family in Decision Making, 10. Diffusion of Innovations, 11. Cultural Aspects of Indian Consumer Markets, 12. Organisational Buying Behaviour, 13. Role of Consumer Behaviour in Advertisement, 14. Consumer Involvement and Decision Making, 15. Information Search and Processing, 16. Alternative Evaluatio, 17. Purchase and its Results, 18. Consumer Protection in India, 19. Market Segmentation, 20. E-Commerce and Consumer Behaviour, 21. Factors Affecting Behaviour of Indian Customers




## Advertising Principles and Practice

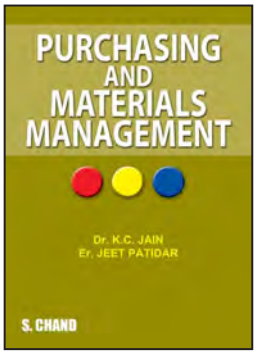
Ruchi Gupta

**ISBN: 9788121940016**
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**Price: ₹ 495 | Pages: 416**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

Unit-I: Basics of Advertising: 1. Introduction to Advertising, 2. Role of Advertising in Marketing Mix, 3. Advertising as A Communication Tool, 4. Types of Advertising, 5. Advertising Campaign, Unit-II: Advertising Management: 6. Advertising Objectives, 7. Advertising Budget, 8. Advertising Message Decisions, 9. Creative Side of Advertising, 10. Advertising Appeals, 11. Celebrity Endorsements, 12. Mascots, 13. Media Decisions, 14. Types of Media, 15. Online Advertising, 16. Measuring Advertising Effectiveness, 17. Advertising Agencies, Unit-III: Legal and Ethical Aspects of Advertising in India: 18. Legal Aspects of Advertising in India, 19. Ethical Issues in Advertising, 20. Advertising Standards Council of India, 21. Surrogate Advertising in India, 22. Comparative Advertising in India • Additional Case Studies: 1. Pepsi's "*Youngistaan*" Campaign,

2. Launch of Microsoft's X-Box, 3. Tata Docomo "Keep it Simple, Silly", 4. "*Atithi Devo Bhavah*" Campaign, 5. Volkswagen Vento Launch Campaign, 6. Launch Campaign of Tata Sky Plus, 7. Coca Cola's "Open Happiness" Campaign • Advertising Glossary



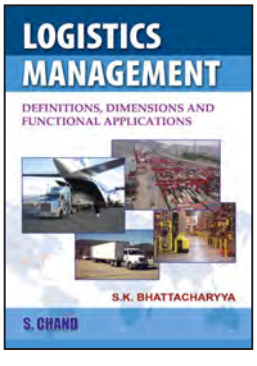

## Purchasing and Materials Management

K C Jain & Jeet Patidar

**ISBN: 9788121936484**
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### Contents

1. Material Management, 2. Integrated Materials Management, 3. Computer Application and System Analysis for Material Management, 4. Standardization and Variety Reduction, 5. Classification and Codification of Materials, 6. Materials Planning and Budgeting, 7. Stores and Stores Management, 8. Automatic Storing and Warehousing, 9. Stores in Stock Yards, 10. Preservation of Materials, 11. Materials Handling, 12. Inventory Planning and Control, 13. Inventory Management Models, 14. Selective Inventory Control, 15. Make or Buy Decisions, 16. Purchasing Principles, Procedure and Organization, 17. Vendor Evaluation and Performance Rating, 18. Value Analysis (VA), 19. Just-in-Time Purchasing, 20. Purchasing Negotiating Skills, 21. Quality Control in Material Management, 22. Surplus, Obsolete and Waste Management, 23. Stock Maintenance and Accounting, 24. Legal Aspects in Purchasing, 25. Cases and Review Questions



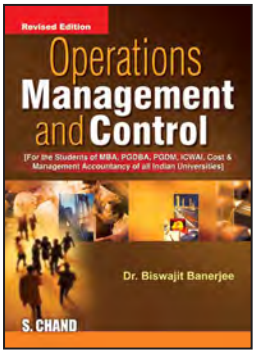

## Logistics Management, 2e

S K Bhattacharyya

**ISBN: 9788121928854**
**Code: 1007000440**
**Price: ₹ 595 | Pages: 432**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Definition - Concepts, Compounds, Requirements, 2. Supply Chain Management, 3. Role of Transportation in Logistics and Supply Chain (LSCM), 4. Modes of Transportation, 5. Containerization and Multimodal Transport, 6. Warehousing, 7. Packaging, 8. Materials Handling, 9. Distribution and Retail Supply Chain, 10. Reverse Logistics a Competitive Strategy, 11. LSCM Alliances 3 PL + 4 PL =7 PL Principles, Advantages and Outsourcing, 12. Relationship Management,13. Certain Legal Aspects for Carriage of Cargo-Customs Formalities, Documentation & EDI, 14. Organizing LSCM Functions, 15. Tenets of Costing in LSCM, 16. Integrating Strategic Planning for LSCM Functions: The Methods of Accomplishment, 17. Operation Research in LSCM Decision Making, 18. Measurements and Improvement of LSCM Service Quality and Performance, 19. The Place of LSCM - Past, Present and Future, 20. Supply Chain Implementation on An Assumed Path - A Simulation Exercise • *Glossary of LSCM Terms* • *Bibliography*



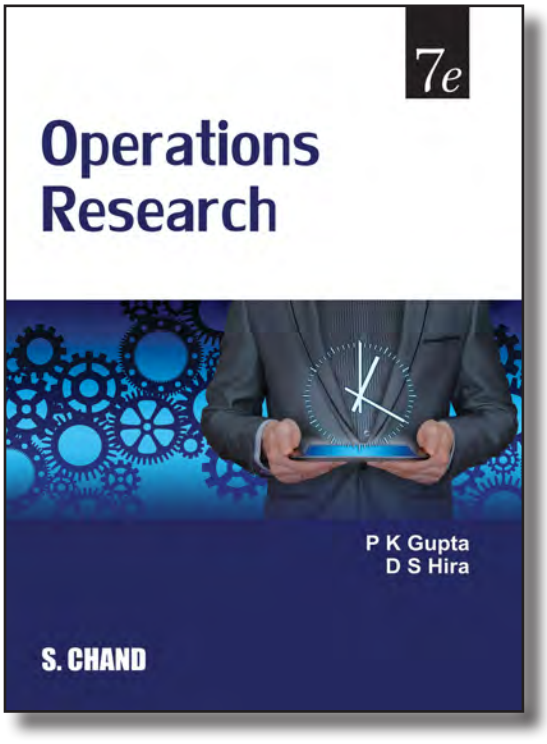

## Operations Management and Control, 3e

Biswajit Banerjee

**ISBN: 9788121925938**
**Code: 1007B00411**
**Price: ₹ 495 | Pages: 576**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

Part-I: Production Planning Scheduling and Monitoring Systems: 1. Planning Problems, 2. Management Forecasting 3. The Role of Manufacturing, 4. Production Planning and Control, 5. Inventory Management, Part-II: Production Economics: 6. Plant Layout, 7. Quality Management, 8. Maintenance Management, 9. Machine Capacity Utilization and Machine Balancing, Part-III: Productivity: 10. The Philosophy of Productivity Science, 11. Work Study A Productivity Technique, 12. Incentive Schemes, 13. Job Evaluation, 14. Value Analysis/Engineering and Cost Reduction, 15. Learning Curve, Part-IV: Cost Implications: 16. Cost Information for Decision Making, Part-V: Technology of Production Techniques: 17. Implication of Technology and Other Concepts, Part-VI: Project Management and Control: 18. Project Identification, Formulation and Appraisal,19. Project Financing and Cost Systems, 20. Project Administration and Evaluation, Part-VII: Exercise: 1. Planning Problems, 2. Management Forecasting, 3. The Role of Manufacturing, 4. Production Planning and Control, 5. Inventory Management, 6. Plant Layout, 7. Quality Management, 8. Maintenance Management, 9. Machine Capacity Utilization and Machine Balancing, 10. The Philosophy of Productivity Science, 11. Work Study A Productivity Technique, 12. Incentive Schemes, 13. Job Evaluation, 14. Value Analysis/Engineering and Cost Reduction, 15. Learning Curve, 16. Cost Information for Decision Making, 17. Implication of Technology and Other Concepts, 18. Project Identification, Formulation and Appraisal, 19. Project Financing and Cost Systems, 20. Project Administration and Evaluation • *Subject Index*




# Operations Research, 7e

P K Gupta & D S Hira

## About the Book

Comprehensively written in a manner that suites the students of Mechanical Engineering and Commerce & Management, *"Operations Research"* transmutes deftly into a resource or a reference text for the students of statistics and mathematics or aspirants of various entrance examinations including UPSC.

Coverage of popular topics such as Linear Programming, Probability Theory and Queuing Models are supplemented with numerous examples, tables and figures which are then followed by exercises thereby providing the assurance to fulfil every requirement of understanding of the student.

A book which has seen, foreseen and incorporated changes in the subject for more than 40 years, it continues to be one of the most sought after texts by the students.

## Key Features

- 16 chapters succinctly cover every crucial concept of the subject.
- Close to 2300 examples, figures and tables aid to the concepts explained.
- 1800+ exercise questions enhance the practice quotient of the book.

Instructor's Resource available

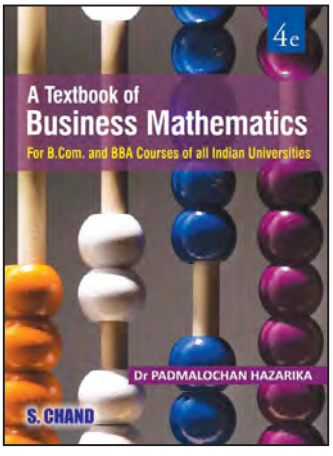
**ISBN: 9788121902816 | Code: 1010E00087 | Price: ₹ 995 | Pages: 1,512 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Basics of Operations Research
2. Liner Programming
3. The Transportation Model
4. The Assignment Model
5. Sequencing Models and Related Problems
6. Advanced Topics In Liner Programming
7. Dynamic Programming
8. Probability Theory
9. Decision Theory, Game, Investment Analysis and Annuity
10. Queuing Models
11. Replacement Models
12. Inventory Models
13. Simulation
14. Network Analysis In Project Planning (PERT And CPM)
15. Statistical Quality Control.
16. Non Liner Programming

- *Appendices*
  *A: Review of Vectors and matrices*
  *B: Derivation of Poisson Distribution*
- *Table C-1: Random Numbers Table*
- *Table C-2: Proportion of total area under the normal curve from – ∞ to z*
- *Bibliography*
- *Index*

**P K Gupta** is Former Assistant Professor, PEC Institute of Engineering and Technology, Chandigarh.
**D S Hira,** Director General, Swami Vivekanand Group of Institute, Patiala.




## A Textbook of Business Mathematics, 4e

Padmalochan Hazarika

Instructor's Resource available

### About the Book

The new edition of *A Textbook of Business Mathematics* inches on its earlier editions and continues to provide a comprehensive coverage of important topics and concepts in business mathematics. The book is carefully written and structured to simplify business maths and equips students with the knowledge and practice they need to fully learn each concept. Abundant solved examples and exercises incorporated in the text help in effective learning process and examination preparation for students.

### Key Features

- Incorporation of important techniques of Operations Research such as transportation and assignment problem
- More than 750 solved examples and exercises with solutions for extensive practice
- Objective-type questions to test learning – a distinctive new feature of this edition

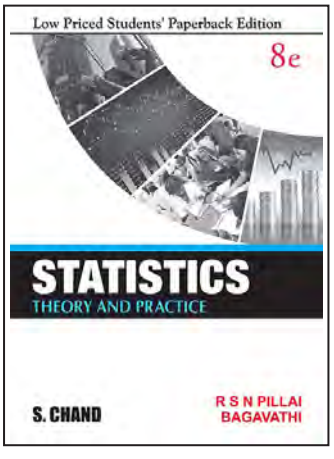
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**Padmalochan Hazarika,** Professor, Department of Commerce, Gauhati University, Gauhati

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## Statistics, 8e

R S N Pillai & Bagavathi

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### Key Features

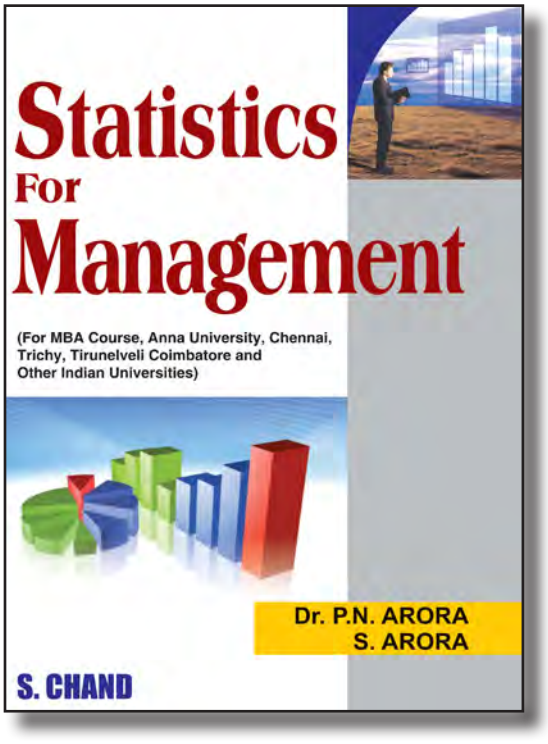
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**R S N Pillai,** Formerly Professor & Head of the Department (Commerce), Anna College, Aramboly (Kanyakumari).




## Statistics and Management, 5e

P N Arora & S Arora

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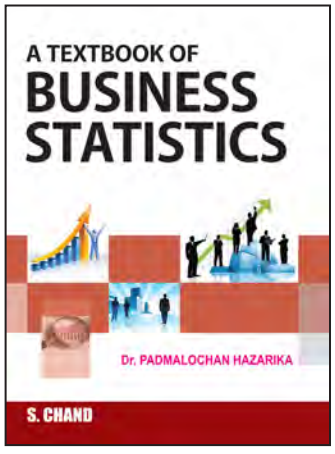
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8. Correlation Analysis
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10. Time Series Analysis
11. Non-Parametric Methods
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15. Measures of Central Tendency or Averages
16. Measures of Dispersion
17. Use of Logarithmic Tables
18. M.B.A. Examination Papers – Anna University
19. Statistical Tables

**P N Arora** M.A., Ph.D. (DU) Former Professor of Mathematics Dayal Singh College University of Delhi, Delhi




## A Textbook of Business Statistics, 4e

Padmalochan Hazarika

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The textbook continues to provide a comprehensive coverage of important topics and concepts in business statistics. Written in a lucid manner, it would equip the students with the knowledge and practice they need to learn each concept. Numerous examples and exercises have been provided for effective understanding. Students of BCom and BBA courses would find this book extremely useful.

### Key Features

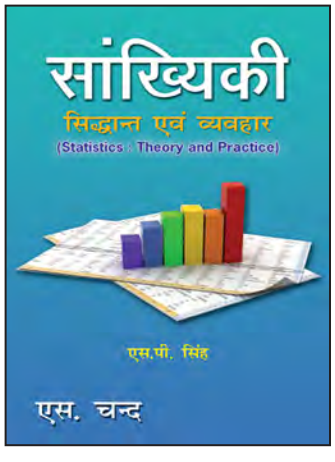
- Over 350 examples to aid understanding of the concepts
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**Padamalochan Hazarika,** Professor, Department of Commerce, Gauhati University, Gauhati.

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## सांख्यिकी: सिद्धान्त एवं व्यवहार

एस पी सिंह

### पुस्तक के विषय में

इस संस्करण में पूर्णतया नए लिखे गए अध्याय-सांख्यिकी माध्य बहुगुणी सहसम्बन्ध तथा प्रतीपगमन शामिल किये गए हैं। इस पुस्तक में सांख्यिकीय सूत्रों तथा विधियों के स्पष्टीकरण हेतु सरल तथा जटिल-दोनों प्रकार के उदाहरणों का समावेश किया गया है। अभ्यास हेतु वस्तुनिष्ठ-प्रश्न-बैंक नामक खण्ड में 620 प्रश्नों का समावेश किया गया है।

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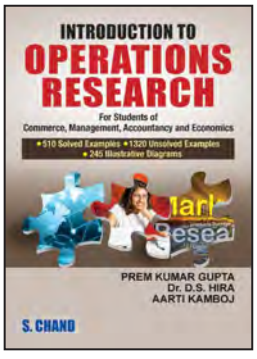
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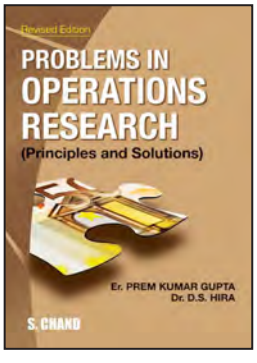

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Prem Kumar Gupta, D S Hira & Aarti Kamboj

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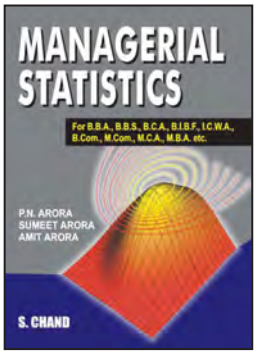

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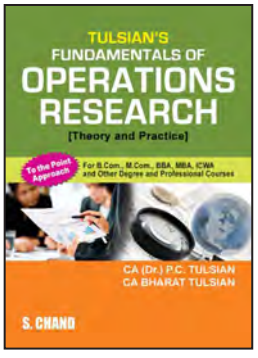

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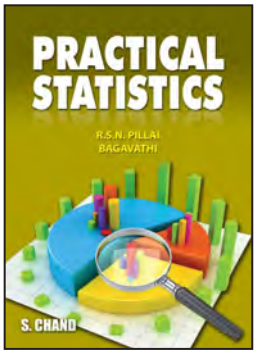

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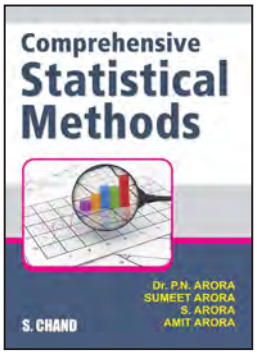

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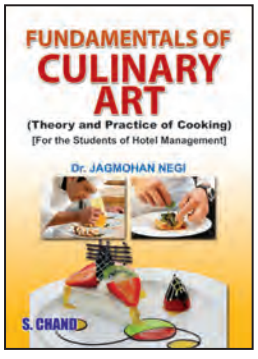

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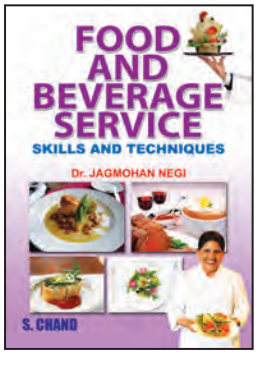

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Jagmohan Negi

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## Food and Beverage Service

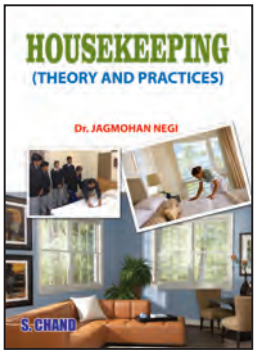
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## Housekeeping

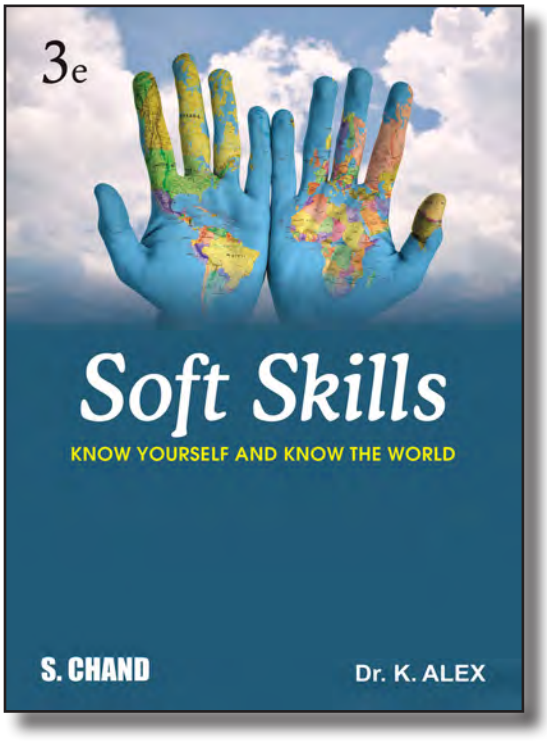
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In this new age of communication and sociability, it is indispensable for budding professionals to possess essential soft skills. This book by Dr. K Alex acquaints the students with the requisite soft skills so that they not only become a part of but also lead today's dynamic workforce.

## Key Features

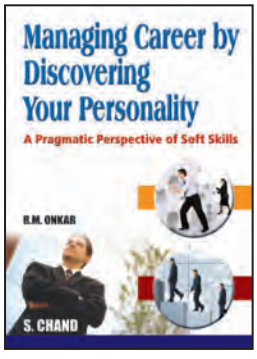
- Empowers the youth in acquiring the right soft skills, particularly in the corporate world
- Focuses on career planning, body language, team building & teamwork, etiquette & manners, time & stress management
- Interesting and engaging images as well as exercises make the book a must-read

**Dr K Alex,** Associate Professor, St. Joseph's College, Tiruchirapalli,TamilNadu

**ISBN: 9788121931922 | Price: ₹ 550 | Pages: 264 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Soft Skills
2. Know Thyself/Self-Discovery
3. Developing Positive Attitude
4. Forming Values
5. Improving Perception
6. Career Planning
7. Art of Listening
8. Art of reading
9. Art of Speaking
10. Art of Writing
11. Art of Writing eMail
12. Body Language
13. Team Building and Teamwork
14. Group Discussion
15. Etiquette and Manners
16. Preparing CV/Résumé
17. Interview Skills
18. Time Management
19. Stress Management




## Managing Career by Discovering Your Personality

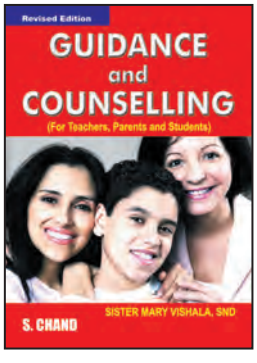
R M Onkar

Multicolour Edition

**ISBN: 9788121933346**
**Code: 1007000496**
**Price: ₹ 315 | Pages: 160**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Modality for Discovering Yourself for Self-Assessment and Self-Packaging: 1. Behaviour, Conduct and Values, 2. Personal Characteristics, 3. Intellectual Abilities, 4, Performance and Stability, 5. Work Motivation, 6. Interpersonal Skills, 7. Administrative Skills, 2. Self-Awakening Mission for Self -Projection and Self-Marketing: Annexures, 3. The Art of Enriching, Empowering and Enlightening Your Life • *Epilogue*




## Guidance and Counselling

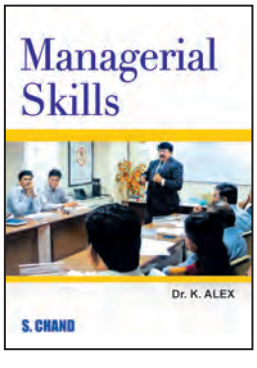
Sister Mary Vishala, SND

Multicolour Edition

**ISBN: 9788121927475**
**Code: 1001B00214**
**Price: ₹ 399 | Pages: 232**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Guidance and Counselling, 2. Prenatal Period, 3. Infancy, 4. Early Childhood, 5. Later Childhood, 6. Adolescents, 7. Habit Formation in Children, 8. Mental Hygiene in Children, 9. Why Does one Forget, 10. Training in Memory, 11. Exceptional Children, 12. Character Formation in Children • *Bibliography*




## Managerial Skills

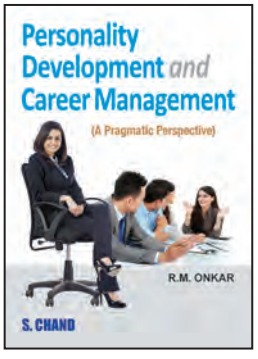
K Alex

Multicolour Edition

**ISBN: 9788121998697**
**Code: 1001000463**
**Price: ₹ 365 | Pages: 192**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Managing Self, 2. Managing Others/ Interpersonal Skills, 3. Managing Your Time, 4. Strategic Thinking, 5. Lateral Thinking, 6. Boss-Subordinate Relationship, 7. Facing Changes, 8. Facing Challenges, 9. Staying Motivated, 10. Effective Decision Making, 11. Conflict Resolution, 12. Team Building and Teamwork, 13. Leadership Communication, 14. Developing Human Network, 15. Balancing Work and Life, 16. Practising Corporate Social Responsibility, 17. Professional Ethics, 18. Workplace/ Office Politics, 19. Planning for a Second Career




## Personality Development and Career Management

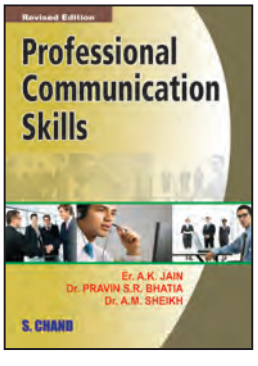
R M Onkar

Multicolour Edition

**ISBN: 9788121929035**
**Code: 1007C00445**
**Price: ₹ 525 | Pages: 232**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Five Pillars of your Personality Development and Career Advancement, 2. A New Outlook on Self Identification and Self-Assessment, 3. Setting Personal Mission and Preparing its Statement, 4. Brain-Mind-Body's Combined Relation With Attributes, 5. Intellect, Genius, Intelligence and Talent, 6. Selection of a Job to Match Your Potential, 7. Modality and Mechanics of Advising and Counselling, 8. Challenges of 21st Century for Managing Career, 9. Managing Success in Your Career Some Secrets and Some Guidelines, 10. The Personal Attribute Profiles of Our Successful Professional Leaders




## Professional Communication Skills

A K Jain, Pravin S R Bhatia & A M Sheikh

**ISBN: 9788121920926**
**Code: 1011C00793**
**Price: ₹ 425 | Pages: 440**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

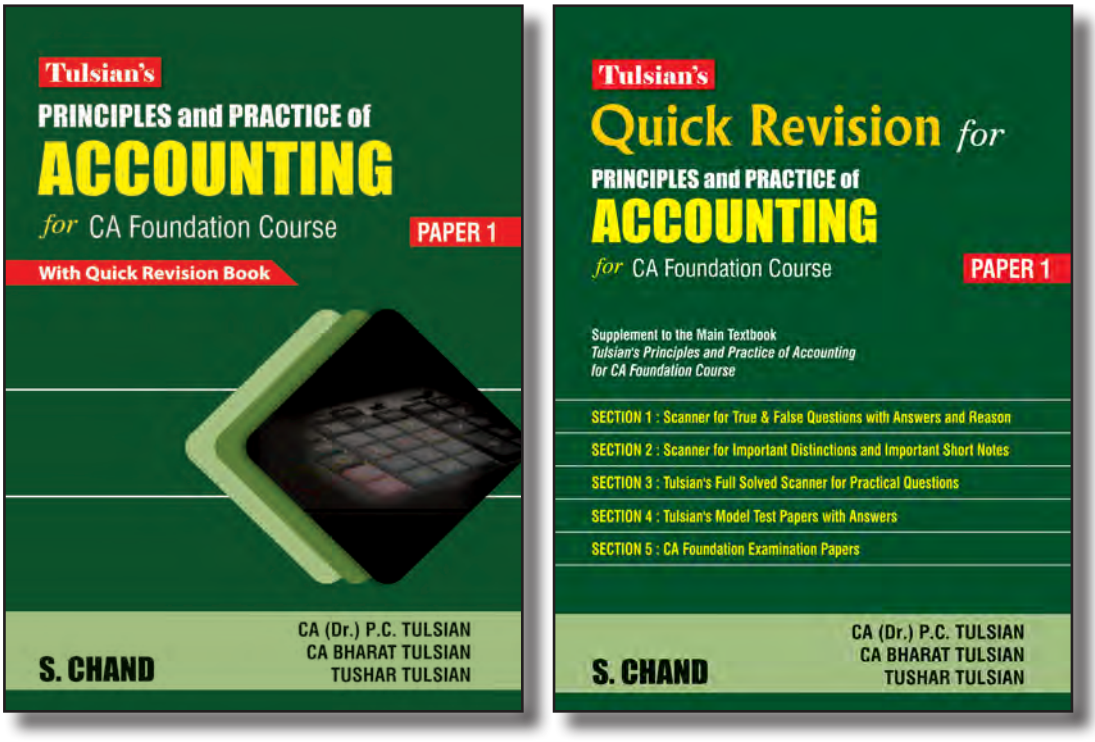
1. Language as Skill of Communication, 2. Phonetics, 3. Articles, 4. The Preposition, 5. Tenses, 6. Subject-Verb Accord, 7. The Infinitive, 8. The Participle, 9. Clauses, 10. Degrees of Comparison, 11. Transformation of Sentences, 12. Direct and Indirect Speech, 13. Modifiers, 14. Sentence Connectives, 15. The Gerund, 16. Punctuation and Capitalisation, 17. Vocabulary, 18. Use of Abbreviations, 19. Correct Usage, 20. Eponym, 21. Concord, 22. Homophones, 23. Letter Writing, 24. Paragraph Writing, 25. Proposal Writing, 26. Verbal Communication, 27. Oral Presentation, 28. Technical Written Communication, 29. Forms of Technical Writing, 30. Report Writing, 31. Advertising, 32. Precis Writing, 33. Collection of Short Essays, 34. Collection of Short Stories, 35. Interview Skills and Group Discussion, 36. Communication: Process & Elements, 37. Reading Comprehension, 38. Principles of Public Speaking, 39. How to Create a PowerPoint Presentation, 40. Speaking Skills, 41. Listening Skills • *Appendices: (i) Question Bank, (ii) Model Question Paper*

# Tulsian's Principles and Practice of Accounting for CA Foundation Course: With Quick Revision Book [Paper-1]

New

Combo Pack

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian




**ISBN: 9789355015600 | Price: ₹ 1399 | Pages: 1544 | Size: 6.75" X 9.5" (Paperback)**

## About the Book

Tulsian's Principles and Practice of Accounting For CA Foundation Course (Paper I)

This book has been designed for the students of CA Foundation Course for the subject Principles and Practice of Accounting (Paper 1). It completely follows the syllabus issued by the Institute of Chartered Accountants of India.

This book serves as a self-study text and provides an overview of basics of accounting along with accounting principles and policies. Further, it discusses accounting standards, special transactions including bills of exchange, sale of goods on approval or return basis, consignments, average due date and accounting for share capital.

All important, formulae, figures and practical steps have been presented in screen format to catch the eye. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and easy retention of concepts.

Tulsian's Quick Revision For Principles and Practice of Accounting - CA Foundation Course (Paper I)

This book is a companion to Tulsian's Principles and Practice of Accounting for CA Foundation Course. It provides a quick revision of the concepts discussed in the main textbook and helps students to test their knowledge. The book helps in making the revision process easy by providing candidates with fully solved scanner, model test papers with solutions and CA Foundation examination papers for practice. The content is exam-oriented, highly relevant and focuses on the important topics appearing in the exam.

## Key Features

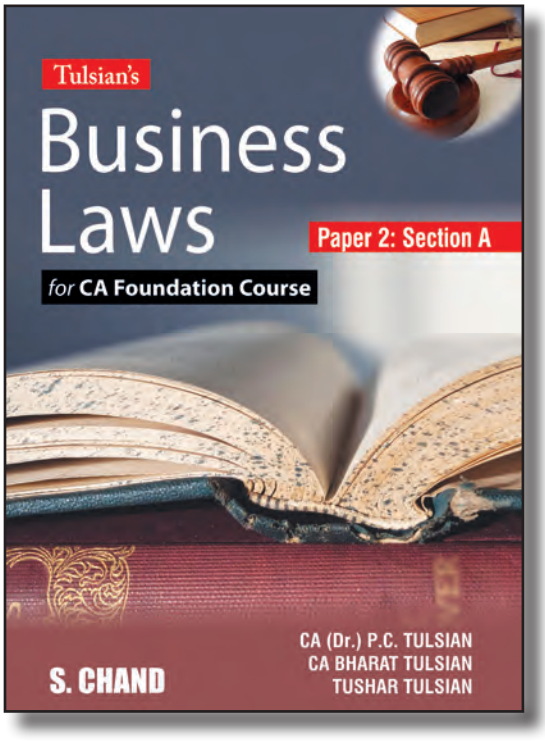
- Numerous questions along with answers have been provided for better understanding of important theoretical concepts
- Over 500 illustrations have been provided for a better understanding of the text
- Four Model Test Papers with Answers have been provided for students' practice

## Contents

Tulsian's Principles and Practice of Accounting for CA Foundation Course (Paper I)
1: Basics of Accounting
2: Accounting Principles and Policies
3: Accounting Standards
4: Capital and Revenue Expenditure and Receipts
5: Accounting as a Measurement Discipline
6: Accounting Process
7: Errors and Their Rectification
8: Bank Reconciliation Statement
9: Valuation of Inventory
10: Accounting for Depreciation
11: Accounting for Bills of Exchange
12: Goods Sent on Approval or on Sale or Return Basis
13: Accounting for Consignment
14: Average Due Date
15: Account Current
16A: Financial Statements (Without Adjustments)
16B: Financial Statements (With Adjustments)
17: Accounting for Partnership Firms — Fundamentals
18: Reconstitution of Partnership — Change in Profit Sharing Ratio
19: Reconstitution of Partnership — Admission of a Partner
20: Reconstitution of Partnership-Retirement/Death of a Partner
21: Limited Liability Partnership [LLP]
22: Financial Statements of Not-for-Profit Organisations
23: Accounting for Share Capital
24: Issue of Debentures

Tulsian's Quick Revision for Principles and Practice of Accounting - CA Foundation Course (Paper I)
Section A: True & False Questions
True & False Questions
Section B: Important Distinctions and Important Short Notes
Important Distinctions
Important Short Notes
Section C: Tulsian's Fully Solved Scanner for Practical Questions
1. Errors and Their Rectification
2. Bank Reconciliation Statement
3. Valuation of Inventory
4. Accounting for Depreciation
5. Accounting for Bills of Exchange
6. Goods Sent on Approval or on Sale or Return Basis
7. Accounting for Consignment
8. Average Due Date
9. Account Current
10. Financial Statements
11. Accounting for Partnership Firms — Fundamentals
12. Reconstitution of Partnership — Change in Profit Sharing Ratio
13. Reconstitution of Partnership — Admission of a Partner
14. Reconstitution of Partnership-Retirement/Death of a Partner
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Section D: Tulsian's Model Test Papers With Answers
Tulsian's Model Test Paper 1
Tulsian's Model Test Paper 2
Tulsian's Model Test Paper 3
Tulsian's Model Test Paper 4
Section E: CA Foundation Examination Papers
CA Foundation Examination Papers

**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.
**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.
**Tushar Tulsian**, MBA (Finance), Indian School of Business (ISB) Investment Banker (Former) J.P. Morgan




## Tulsian's Business Laws: For CA Foundation Course [Paper 2: Section A]

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian

New

### About the Book

The book has been primarily designed for the students of CA foundation course paper 2 (section A) for the subject Business Laws. It completely follows the new syllabus issued by the Institute of Chartered Accountants of India. This book serves as a self-study text and provides essential guidance for understanding of The Indian Contract Act, 1872; The Sale of Goods Act, 1930; and The Companies Act, 2013. The book also acquires the ability to address basic application-oriented issues. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and solved problems.

### Key Features

- Numerous exhibits to acquaint students with various accounting treatment and formats
- Over 550 illustrations have been provided for a better understanding of the text
- Over 60 distinctions and more than 550 solved problems have been provided for a better comparative study

**ISBN: 9789355015204 | Price: ₹ 699 | Pages: 640 | Size: 6.75" X 9.5" (Paperback)**

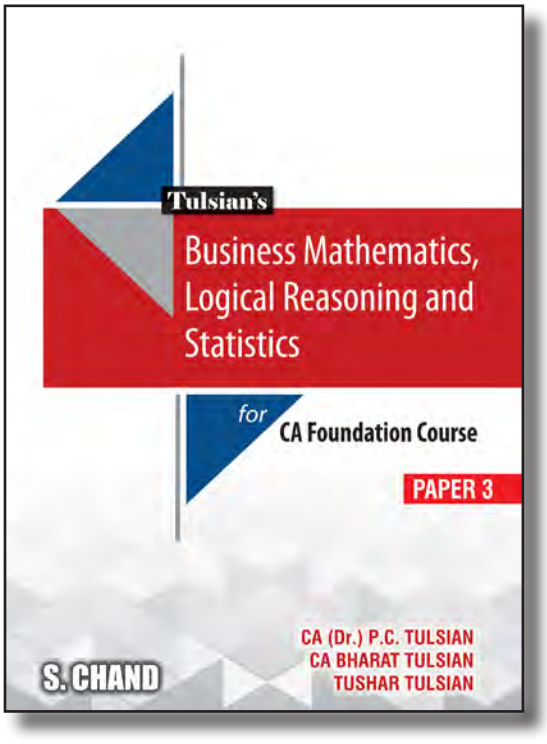
### Contents

1: Meaning and Essentials of Contract
2: Offer and Acceptance
3: Capacity of Parties
4: Consideration
5: Free Consent
6: Legality of Object and Consideration, and Agreements Opposed to Public Policy
7: Void Agreement and Contingent Contracts
8: Performance of a Contract
9: Discharge of a Contract
10: Remedies for Breach of Contract
11: Quasi-Contracts
12: The Sale of Goods Act, 1930
13: The Indian Partnership Act, 1932
14: The Limited Liability Partnership Act, 2008
15: Meaning, Nature and Types of Company
16: Incorporation of a Company
17: Memorandum and Articles of Association
18: Shares and Share Capital

Appendices

1. Tulsian's Revision One Day Before Examination
2. Tulsian's Correct - Incorrect Questions
3. Tulsian's Practical Problems
4. Tulsian's Model Test Papers
5. CA Foundation Examination Problems

**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.
**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.
**Tushar Tulsian**, MBA (Finance), Indian School of Business (ISB) Investment Banker (Former) J.P. Morgan




# Tulsian's Business Mathematics, Logical Reasoning and Statistics: For CA Foundation Course [PAPER-3]

New

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian

## About the Book

This book has been designed for the students of CA Foundation Course for the subject Business Mathematics, Logical Reasoning and Statistics (Paper 3). It completely follows the new syllabus issued by the Institute of Chartered Accountants of India. This book serves as a self-study text and provides an overview of business mathematics including ratio & proportion, indices, logarithms, sequence, series and sets. Text includes logical reasoning and statistics questions and approaches, presented in simple and lucid manner for better understanding of the students.

All important, formulae, figures and practical steps have been presented in screen format to catch the eye. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and easy retention of concepts.

## Key Features

- Over 1000 Important Points to Remember have been provided throughout the text
- More than 2000 multiple choice questions along with answers have been provided
- Eight Model Test Papers with Answers have been provided for students' practice

**ISBN: 9789355015587 | Price: ₹ 799 | Pages: 736 | Size: 6.75" X 9.5" (Paperback)**

## Contents

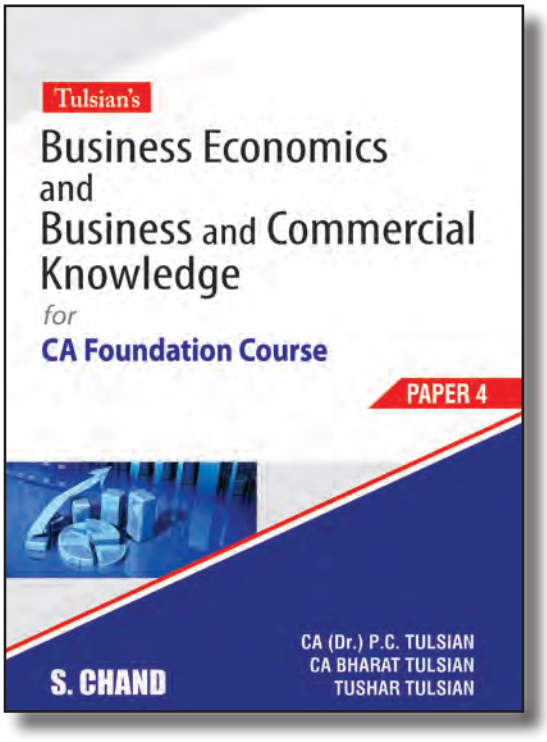
PART-A: Business Mathematics
1: Ratio and Proportion, Indices and Logarithms
2: Equations
3: Graph of Linear Inequalities
4A: Simple and Compound Interest
4B: Time Value of Money
5: Permutations and Combinations
6: Sequence and Series
7A: Sets
7B: Relations and Functions
8: Basic Applications of Differential Calculus
9: Basic Applications of Integral Calculus

PART-B: Logical Reasoning
1: Number Series, Coding & Decoding and Odd Man Out
2: Direction Tests
3: Seating Arrangements
4: Blood Relations

PART-C: Statistics
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2: Classification and Tabulation
3: Diagrammatic and Graphical Presentation
4: Measures of Central Tendency
5: Measures of Dispersion
6: Correlation
7: Regression Analysis
8: Index Numbers
9: Probability Theory
10: Theoretical Distributions—Binomial Distribution
11: Theoretical Distributions—Poisson Distribution
12: Theoretical Distributions—Normal Distribution

PART-D: Tulsian's Test Papers with Answers
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Tulsian's Revision Test Paper 2
Tulsian's Revision Test Paper 3
Tulsian's Model Test Paper 4
Tulsian's Model Test Paper 5
Tulsian's Model Test Paper 6
Tulsian's Model Test Paper 7
Tulsian's Model Test Paper 8

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**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.
**Tushar Tulsian**, MBA (Finance), Indian School of Business (ISB) Investment Banker (Former) J.P. Morgan




## Tulsian's Business Economics and Business and Commercial Knowledge: For CA Foundation Course [Paper 4]

New

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian

### About the Book

The book adopts a fresh and novel approach to the study of Business Economics and Business and Commercial Knowledge. It completely follows the new syllabus issued by the Institute of Chartered Accountants of India for the students of CA foundation course (paper 4).

This book is written in simple language "meant to serve the beginners". It provides essential guidance for understanding the theories in business economics along with the common business & commercial concepts. Based on the author's proven approach teach yourself style, the text is interspersed with exhibits to acquaint students with various formulae.

### Key Features

- Numerous exhibits to acquaint students with various accounting treatment and formats
- Over 550 illustrations have been provided for a better understanding of the text
- Over 60 distinctions and more than 550 solved problems have been provided for a better comparative study

**ISBN: 9789355015259 | Price: ₹ 575 | Pages: 520 | Size: 6.75" X 9.5" (Paperback)**

### Contents

PART A: Business Economics
1: Introduction to Business Economics
2: Theory of Demand and Supply
3: Theory of Production and Cost
4: Price Determination in Different Markets
5: Business Cycles
PART B: Business And Commercial Knowledge
1: Business and Commercial knowledge- An Introduction
2: Business Environment
3: Business Organizations
4: Government Policies for Business Growth
5: Organizations Facilitating Business
6: Common Business Terminologies
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Tulsian's Model Test Paper 6
Tulsian's Revision Test Papers with Answers
Tulsian's Revision Test Paper 1
Tulsian's Revision Test Paper 2
Tulsian's Revision One Day Before Examination

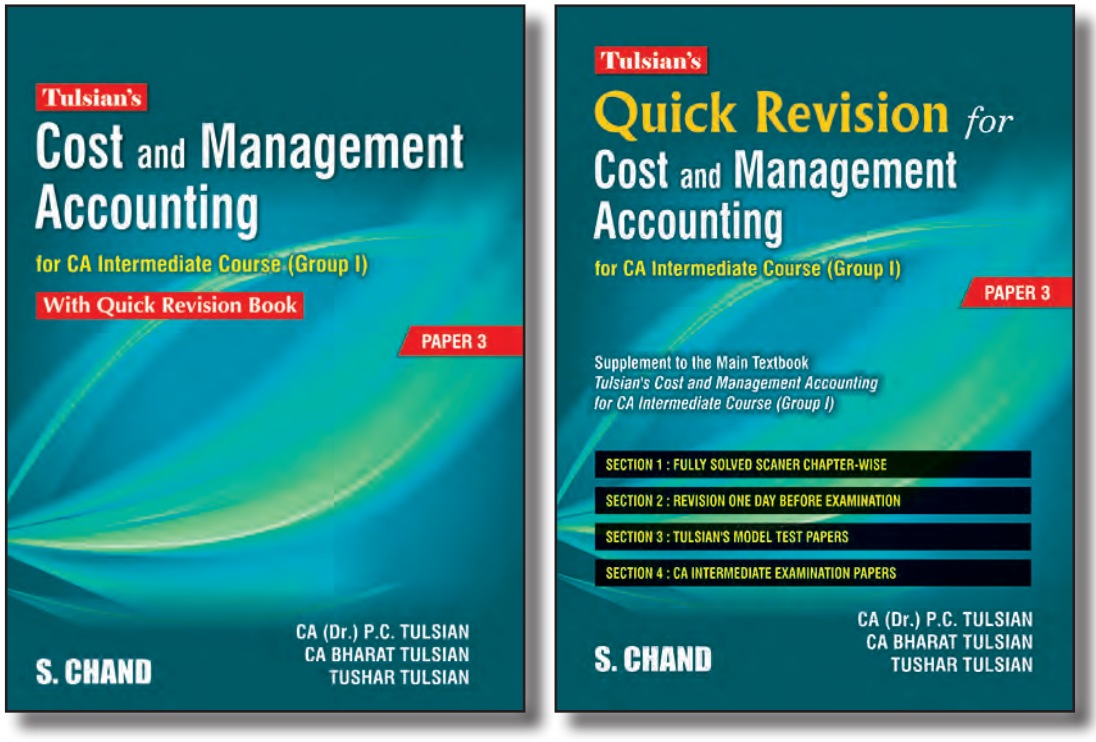
**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.
**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.
**Tushar Tulsian**, MBA (Finance), Indian School of Business (ISB) Investment Banker (Former) J.P. Morgan

# Tulsian's Cost & Management Accounting for CA Intermediate Course (Group I): With Quick Revision Book [Paper 3] Combo Pack

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian

New

Combo Pack




**ISBN: 9789355016409 | Price: ₹ 1299 | Pages: 1560 | Size: 6.75" X 9.5" (Paperback)**

## About the Book

Tulsian's Cost & Management Accounting For CA Intermediate Course (Group I)

The book has been designed for the students of CA Intermediate course (Group I) for the subject Cost and Management Accounting (Paper 3) as per the syllabus issued by the Institute of Chartered Accountants of India.

It serves as a self-study text and provides an overview and essential guidance for understanding complex accounting principles and practices. It includes detail discussion on cost and management accounting, cost ascertainment, methods of costing and cost control analysis including standard costing, marginal costing and budget with budgetary control. The book has been written in simple and lucid manner covering all important equations, formulae, figures and practical steps in a systematic manner to aid students learning. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and easy retention of concepts.

Quick Revision For Cost & Management Accounting - CA Intermediate Course (Group I)

This book is a companion to Tulsian's Cost and Management Accounting for CA Intermediate Course (Group I). It provides a quick revision of the concepts discussed in the main textbook and helps students to test their knowledge. The book helps in making the revision process easy by providing candidates with fully solved scanner, model test papers with solutions and CA Intermediate examination papers for practice. The content is exam-oriented, highly relevant and focuses on the important topics appearing in the exam.

## Key Features

- Numerous questions along with answers have been provided for better understanding of important theoretical concepts
- Over 550 illustrations have been provided for a better understanding of the text
- Over 140 exhibits and more than 350 solved problems have been provided for a better comparative study
- Four Model Test Papers with Answers have been provided for students' practice

## Contents

TULSIAN'S COST & MANAGEMENT ACCOUNTING FOR CA INTERMEDIATE COURSE (GROUP I)
1: Introduction to Cost Accounting
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2: Accounting for Material Cost
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4: Accounting for Overheads
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6: Unit Costing
7: Integral and Non-Integral Systems
8: Reconciliation of Cost and Financial Accounts
9: Job, Batch and Contract Costing
10A: Process Costing I
10B: Process Costing II - Work-in-progress
10C: Joint Products and By-Products
11: Operating Costing (Service Costing)
12: Marginal Costing
13: Budgeting and Budgetary Control
14A: Standard Costing— Material Cost Variances
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14C: Standard Costing— Overhead Variances
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5: Unit Costing
6: Integral and Non-integral Systems
7: Reconciliation of Cost and Financial Accounts
8: Job, Batch and Contract Costing
9A: Process Costing I
9B: Process Costing II - Work-in-progress
9C: Joint Products and By - products
10: Costing of Service Sectors
11: Marginal Costing
12: Budgeting and Budgetary Control
13A: Standard Costing - Material Cost Variances
13B: Standard Costing - Labour Cost Variances
13C: Standard Costing - Overhead Variances
Section 2: Revision One Day Before Examination
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3: Important Accounting Treatments
4: Important Distinctions
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Section 4: CA Intermediate Examination Papers
CA Intermediate Examination Papers

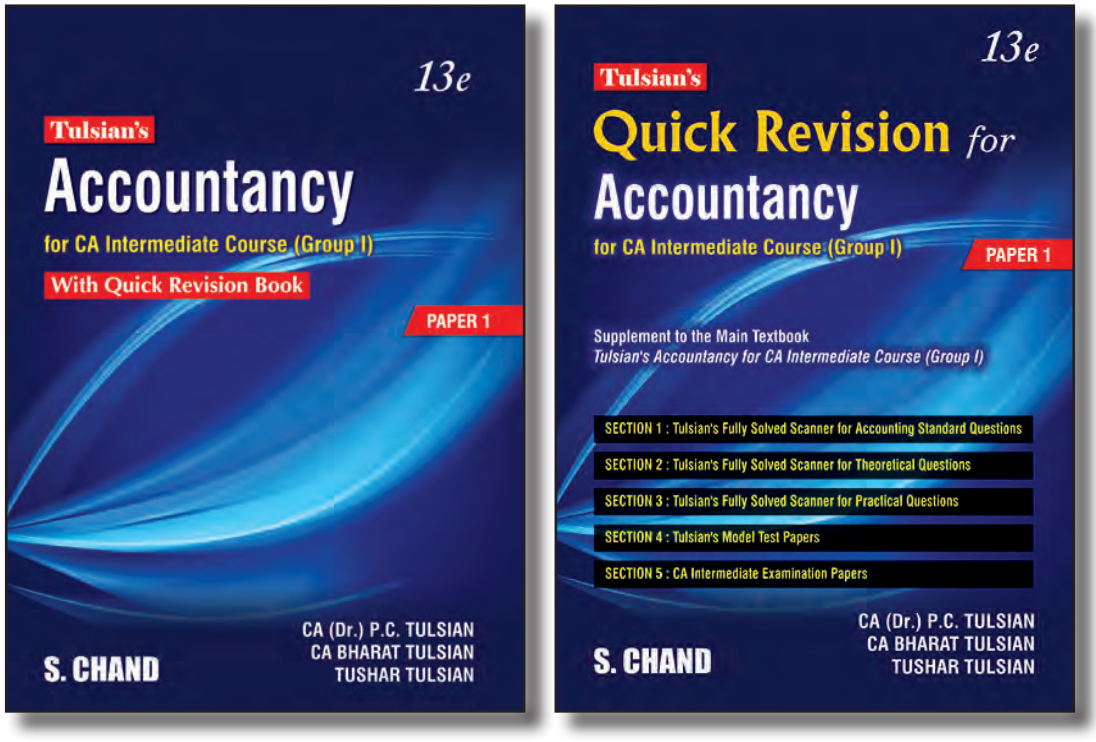
**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.
**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.
**Tushar Tulsian**, MBA (Finance), Indian School of Business (ISB) Investment Banker (Former) J.P. Morgan

# Tulsian's Accountancy for CA Intermediate Course (Group I): With Quick Revision Book (13th Edition) [PAPER 1] Combo Pack

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian

New

Combo Pack




**ISBN: 9789355016393 | Price: ₹ 1150 | Pages: 1280 | Size: 6.75" X 9.5" (Paperback)**

## About the Book

TULSIAN'S ACCOUNTANCY FOR CA INTERMEDIATE COURSE (GROUP I)

The book has been designed for the students of CA Intermediate course (Group I) for the subject Accounting (Paper 1) as per the syllabus issued by the Institute of Chartered Accountants of India.

It serves as a self-study text and provides an overview and essential guidance for understanding complex accounting principles and practices. The text includes detail discussion on accounting for bonus issue, cash flow statements, accounting for special transactions & accounting for departments, branches, and foreign branches. The second section of the book is presented in a simple and lucid manner elaborating the framework for preparation and presentation of financial statements and applications of Accounting Standards.

All important equations, formulae, figures and practical steps have been presented in screen format to catch the eye. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and easy retention of concepts.

QUICK REVISION BOOK FOR ACCOUNTANCY - CA INTERMEDIATE COURSE (GROUP I)

This book is a companion to Tulsian's Accountancy for CA Intermediate Course (Group I). It provides a quick revision of the concepts discussed in the main textbook and helps students to test their knowledge. The book helps in making the revision process easy by providing candidates with fully solved scanner, model test papers with solutions and CA Intermediate examination papers for practice. The content is exam-oriented, highly relevant and focuses on the important topics appearing in the exam.

## Key Features

- Numerous questions along with answers have been provided for better understanding of important theoretical concepts
- Over 600 illustrations have been provided for a better understanding of the text
- Over 100 exhibits to acquaint students with various accounting treatment and formats

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4B: Financial Statements of a Company
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6: Profit Prior to Incorporation and Accounting for Business Acquisition
7: Accounting for Investments
8: Insurance Claims
9: Accounting for Hire Purchase and Instalment Purchase
10: Accounting for Departments
11A: Accounting for Branches
11B: Accounting for Foreign Branches
12: Accounts from Incomplete Records [or Single Entry System]
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2: Framework for Preparation and Presentation of Financial Statements
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4: AS 2 - Valuation of Inventories
5: AS 3 - Cash Flow Statement
6: AS 10 - Property, Plant and Equipment
7: AS 11 - The Effects of Changes in Foreign Exchange Rates
8: AS 12 - Accounting for Government Grants
9: AS 13 - Accounting for Investments
10: AS 16 - Borrowing Cost
TULSIAN'S QUICK REVISION FOR ACCOUNTANCY - CA INTERMEDIATE COURSE (GROUP I)
Section 1: Tulsian's Fully Solved Scanner for Accounting Standard Questions
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2: Framework for Preparation and Presentation of Financial Statements
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4: AS 2 - Valuation of Inventories
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9: AS 13 - Accounting for Investments
10: AS 16 - Borrowing Cost
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Section 4: Tulsian's Model Test Papers With Answers
Tulsian's Model Test Paper 1
Section 5: CA Intermediate Examination Papers
CA Intermediate Examination Papers - Accounting [Group I]

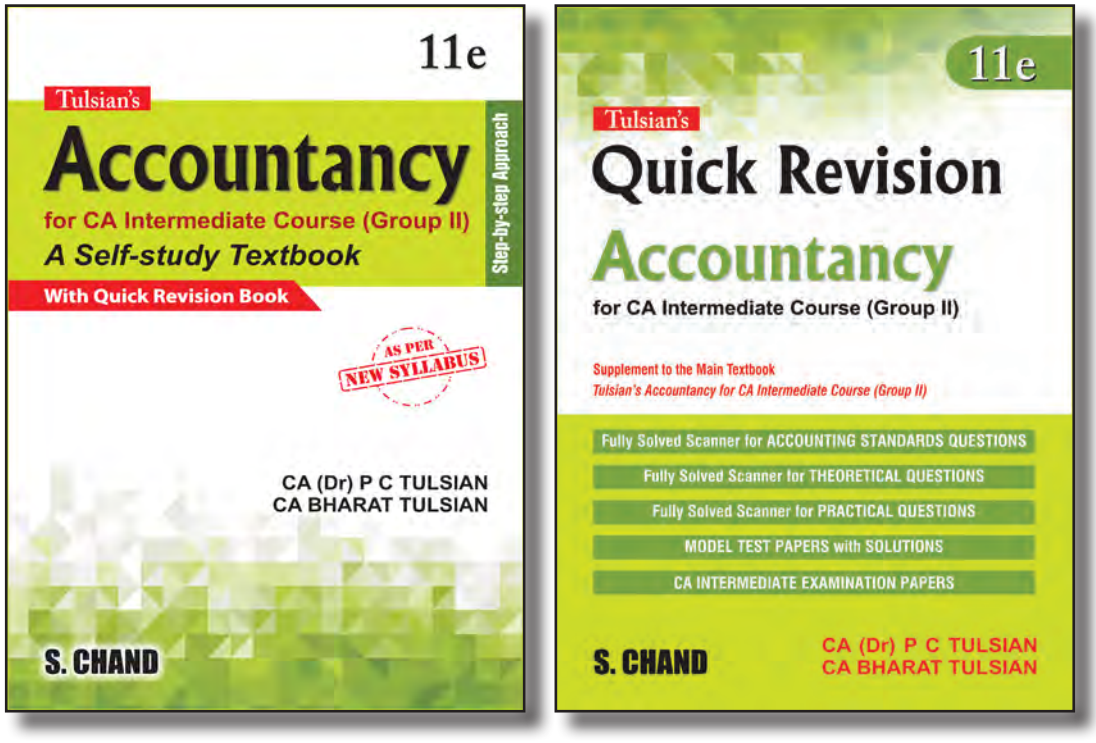
**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.
**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.
**Tushar Tulsian**, MBA (Finance), Indian School of Business (ISB) Investment Banker (Former) J.P. Morgan

# Accountancy For CA Intermediate Course (Group-II) with Quick Revision, 11e

New

Combo Pack

P C Tulsian & Bharat Tulsian




**ISBN: 9789352535224 | Price: ₹ 950 | Pages: 1384 | Size: 6.75" X 9.5" (Paperback)**

## About the Book

**Accountancy for CA Intermediate Course (GROUP II)**

This new edition has been primarily designed for the students of CA Intermediate (Group II) course for the subject Advanced Accounting. It has been revised and remodelled as per the new syllabus issued by the Institute of Chartered Accountants of India. This book serves as a self-study text and provides essential guidance for understanding complex accounting principles and practices. Based on the author's proven approach 6 teach yourself style, the book is replete with numerous illustrations, exhibits and solved problems.

**Quick Revision – Accountancy for CA Intermediate Course (GROUP II)**

This book is a companion to Tulsian's Accountancy for CA Intermediate Course (Group II). It provides a quick revision of the concepts discussed in the main textbook and helps students to test their knowledge. The book helps in making the revision process easy by providing candidates with fully-solved scanner, model test papers with solutions and CA Intermediate examination paper for practice. The content is exam-oriented, highly relevant and focuses on the important topics appearing in the exam.

## Key Features

**Accountancy for CA Intermediate Course (GROUP II)**

- Numerous exhibits to acquaint students with various accounting treatment and formats
- Over 200 illustrations to aid understanding of the concepts
- Over 100 theoretical questions with answers and more than 350 solved problems along with working notes

**Quick Revision – Accountancy for CA Intermediate Course (GROUP II)**

- Fully Solved Scanner for Accounting Standards Questions
- Fully Solved Scanner for Theoretical Questions
- Fully Solved Scanner for Practical Questions
- Model Test Papers with Solutions
- CA Intermediate Examination Papers

## Contents


**Section A – Textbook**

1. Accounting for Employee Stock Option Plan
2. Accounting for Buy-Back of Shares
3. Underwriting of Shares and Debentures
4. Amalgamation of Companies
5. Internal Reconstruction
6. Liquidation of Companies
7. Financial Statements of Life Insurance Companies
8. Financial Statements of General Insurance Companies
9. Financial Statements of Banking Companies
10. Non-Banking Financing Companies (NBFC)
11. Mutual Funds
12. Valuation of Goodwill
13. Consolidated Financial Statements [Holding Company Accounts]

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1. AS 7 – Construction Contracts
2. AS 9 – Revenue Recognition
3. AS 14 – Accounting for Amalgamations
4. AS 18 –Related Party Disclosures
5. AS 19 – Leases
6. AS 20 – Earnings Per Share
7. AS 24 – Discontinuing Operations
8. AS 26 – Intangible Assets
9. AS 29 – Provisions, Contingent Liabilities and Contingent Assets
10. Application of Guidance Note

**Quick Revision –** Accountancy for CA Intermediate Course (GROUP II)

**Section 1 –** Tulsian's Fully-Solved Scanner For Accounting Standard Questions

AS 7 – Construction Contracts

AS 9 – Revenue Recognition

AS 14 – Accounting for Amalgamations

AS 18 –Related Party Disclosures

AS 19 – Leases

AS 20 – Earnings Per Share

AS 24 – Discontinuing Operations

AS 26 – Intangible As sets

AS 29 – Provisions, Contingent Liabilities and Contingent Assets

**Section 2 –** Tulsian's Fully Solved Scanner For Theoretical Questions

Important Theoretical Questions

**Section 3 –** Tulsian's Fully Solved Scanner For Practical Questions

1. Accounting for Employee Stock Option Plan
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7. Financial Statements of Life Insurance Companies
8. Financial Statements of General Insurance Companies
9. Financial Statements of Banking Companies

**Section 4 –** Tulsian's Model Test Papers With Solutions

Tulsian's Model Test Paper 1

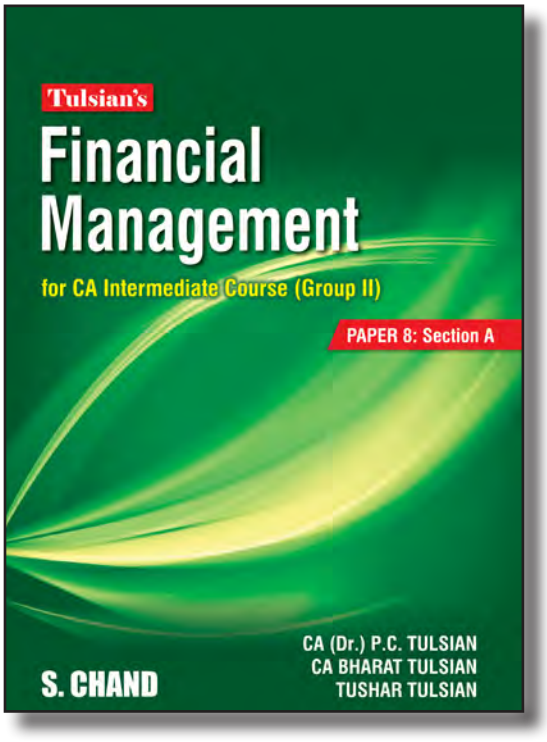
Tulsian's Model Test Paper 1

**Section 5** – CA Intermediate Examination Papers

**CA Intermediate Examination Papers- Advanced Accountancy (Group II)**


**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.

**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.




## Tulsian's Financial Management for CA Intermediate Course (Group II): [PAPER 8: Section A]

New

CA (Dr.) P C Tulsian, CA Bharat Tulsian & Tushar Tulsian

### About the Book

This book meets the needs of the students of CA Intermediate (Group II) course for the subject Financial Management. It completely follows the syllabus issued by the Institute of Chartered Accountants of India. It serves as a self-study text and provides essential guidance for understanding of Financial Management and Financial Analysis; Financial Decisions; Capital Investment and Dividend Decisions; and Management of Working Capital. The book has been written in simple and lucid manner covering all the important equations, formulae, figures and practical steps in a systematic manner to aid students learning. Based on the author's proven approach teach yourself style, the book is replete with numerous illustrations, exhibits and solved problems.

### Key Features

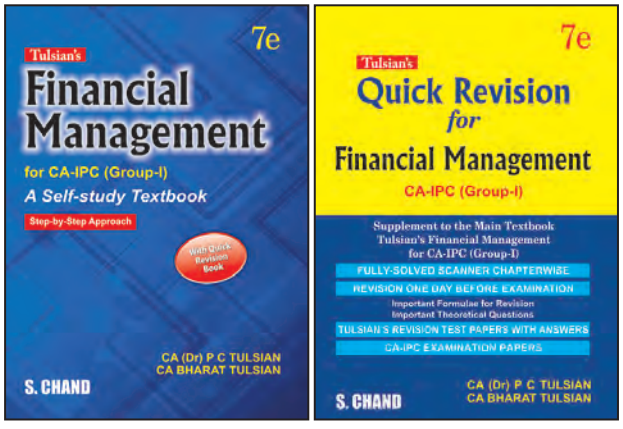
- Over 350 solved problems along with necessary working notes and alternative solution have been provided throughout the text
- Over 120 exhibits to acquaint students with various accounting treatment and formats
- Includes fully solved scanner chapter-wise (CA Intermediate Examination Problems with Solutions)

**ISBN: 9789355016416 | Price: ₹ 995 | Pages: 1056 | Size: 6.75" X 9.5" (Paperback)**

### Contents

SECTION 1
1: Introduction to Financial Management
2: Ratio Analysis
3: Sources of Finance
4: Cost of Capital
5: Capital Structure Decisions
6: Leverages
7: Capital Investment Decisions
8: Risk Analysis in Capital Budgeting
9: Dividend Decisions
10: Working Capital Management—Estimation and Financing
11: Working Capital Management—Receivables Management
12: Working Capital Management—Inventory Management
13: Working Capital Management—Cash Management
SECTION 2: REVISION ONE DAY BEFORE EXAMINATION
• Appendix-1: Important Formulae for Revision
• Appendix-2: Important Theoretical Questions for Revision
SECTION 3: TULSIAN'S MODEL TEST PAPERS WITH ANSWERS
• Tulsian's Model Test Paper 1
• Tulsian's Model Test Paper 2
• Tulsian's Model Test Paper 3
SECTION 4: EXAMINATION PAPERS
• Examination Paper

**P C Tulsian**, Additional Director (Former) Board of Studies, The Institute of Chartered Accountants of India, New Delhi and Principal Ramjas College University of Delhi.
**Bharat Tulsian**, Chartered Accountant, Alumnus of Sri Ram College of Commerce (SRCC), University of Delhi.




## Financial Management with Quick Revision (For Group-I), 7e

P C Tulsian & Bharat Tulsian

Combo Pack

### About the Book

Understanding that value-based approach is critical for accounting students today, the 7th updated and revised edition of Tulsian's Financial Management for CA-IPC (Group I) strikes an effective balance between theory and application. This self-study text retains its focus on aiding students in conceptualising complex topics and is replete with illustrations and learning solutions to help them learn and understand what financial management is all about. Written in teach yourself style, this book serves as a tutor at home and is a trusted resource for financial management students of CA course.

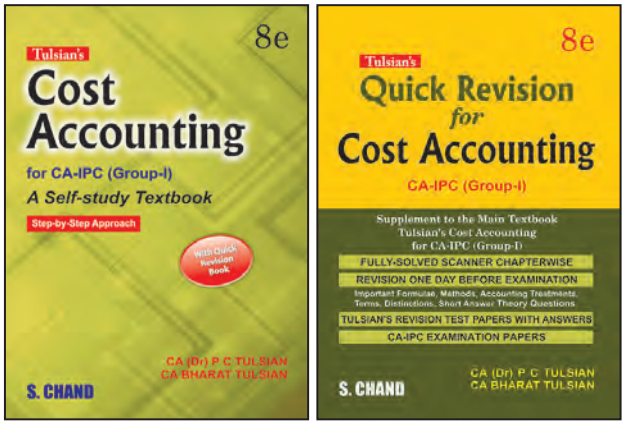
### Key Features

- Over 100 exhibits to acquaint students with various accounting treatment and formats
- More than 400 illustrations have been provided for better understanding of the text
- 350+ solved problems (including quick revision) along with necessary working notes and alternative solution

**ISBN: 9789352531738 | Code: 1007E00491 | Price: ₹ 1295 | Pages: 1368 | Size: 6.75" X 9.5" (Paperback)**

### Contents

*FINANCIAL MANAGEMENT (MAIN TEXTBOOK):* 1. Introduction to Financial Management, 2. Time Value of Money, 3. Capital Budgeting, 4. Cost of Capital, 5. Leverage, 6. Capital Structure Theories, 7. Working Capital Management – Estimation and Financing, 8. Working Capital Management – Receivables Management, 9. Working Capital Management – Inventory Management, 10. Working Capital Management – Cash Management, 11. Sources of Finance, 12. Ratio Analysis, 13. Cash Flow Statement, 14. Funds Flow Statement, *QUICK REVISION (SUPPLEMENT):* Section-I: Fully-Solved Scanner Chapter-wise, Section-II: Scanner for CA Examination Problems, Section-III: Revision one day before Examination, Section-IV: Tulsian's Revision Test Papers with Answers, Section-V: CA-IPC Examination Papers




## Cost Accounting with Quick Revision (For Group-I), 8e

P C Tulsian & Bharat Tulsian

Combo Pack

### About the Book

This leading text has been thoroughly revised and updated to reflect the latest practices in Cost Accounting. The book comprehensively discusses all the basic concepts and processes used to determine product costs followed by practical exposition to students on how to analyse and evaluate information for cost ascertainment, planning, control and decision making. Simplistic, well-structured and abundantly illustrated, the book is an ideal text for students of CA-IPC (Group – I).

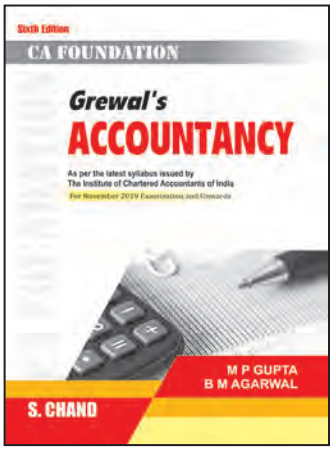
### Key Features

- Over 135 exhibits to familiarise with various accounting treatments and formats
- More than 400 illustrations for effective conceptual knowledge and understanding
- Over 160 solved problems along with working notes and alternative solutions

**ISBN: 9789352533367 | Price: ₹ 1075 | Pages: 1574 | Size: 6.75" X 9.5" (Paperback)**

### Contents

*COST ACCOUNTING (MAIN TEXTBOOK):* 1. Introduction, 2. Accounting for Material Cost, 3. Accounting for Labour Cost, 4. Accounting for Overheads, 5. Unit Costing, 6. Job, Batch and Contract Costing, 7. Process Costing–I, 8. Process Costing–II (Work-in-progress), 9. Joint Products and By Products, 10. Operating Costing (Service Costing), 11. Integral and Non-Integral Systems, 12. Reconciliation of Cost and Financial Accounts, 13. Marginal Costing, 14. Budgeting and Budgetary Control, 15. Standard Costing – Material Cost Variances, 16. Standard Costing – Labour Cost Variances, 17. Standard Costing – Overhead Variances, 18. Standard Costing – Sales Variances, 19. Standard Costing – Miscellaneous Variances, *QUICK REVISION (SUPPLEMENT):* Section-1: Fully-Solved Scanner Chapter-wise, Section-2: Revision One Day Before Examination, Section-3: Tulsian's Revision Test Papers, Section-4: CA-IPC Examination Papers




## Grewal's Accountancy (For CA Foundation), 6e

M P Gupta & B M Agarwal

### About the Book

The book has been primarily designed for the students of C.A. Foundation course for the subject Principles and Practice of Accounting. It has been revised as per the new updates in the syllabus and is applicable for the students appearing for CA Foundation Examination November 2019 and onwards. The book provides conceptual knowledge and understanding of various principles and systems of accounting and their practical application in different sets of business transactions.

### Key Features

- Provides over 250 illustrations throughout the text to aid understanding
- Includes 300+ numerical problems and review questions for practice
- Consists of 300+ multiple choice questions to test understanding of the concepts
- Contains more than 250 true and false statements along with answers and reasons as an appendix for deep-seated understanding of the concepts
- Provides updated chapter on 'Accounting Standards and Accounting Policies'
- Incorporates new format of Profit and Loss Account and Balance Sheet of the Companies (Schedule III to the Companies Act, 2013)

**ISBN: 9789352837540 | Price: ₹ 725 | Pages: 688 | Size: 6.75" X 9.5" (Paperback)**

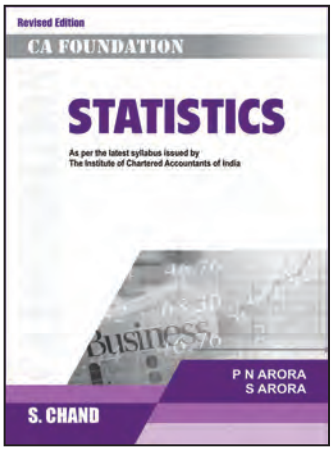
### Contents

1. Accounting Theory and Philosophy, 2. Accounting Standards and Accounting Policies, 3. Capital and Revenue (Expenditure and Receipts), 4. Contingent Assets and Contingent Liabilities, 5. Rules of Accounting and the Journal, 6. Ledger, 7. Cash Book, 8. Subsidiary Books, 9. Trial Balance and Rectification of Errors, 10. Depreciation Accounting, 11. Inventory Valuation, 12. Final Accounts, 13. Accounting for Bills of Exchange, 14. Bank Reconciliation Statement, 15. Average Due Date and Account Current, 16. Sale of Goods on Approval or Return Basis, 17. Issue and Forfeiture of Shares, 18. Issue of Debentures, 19. Financial Statements of Not-for-Profit Organizations, 20. Accounting for Consignments, 21. Partnership–I: Fundamentals (Including LLPs), Valuation of Goodwill and Final Accounts, 22. Partnership–II: Admission of a Partner, 23. Partnership–III: Retirement and Death of a Partner

Appendix: True and False Statements (Answers with Reasons)

**M P Gupta,** MCom, PhD, is Director Jagran College of Art, Science and Commerce, Kanpur. Formerly he was Head of Department - Commerce, VSSD (PG) College, Kanpur as well as Dean, Faculty of Commerce, Kanpur University, Kanpur. He has also been a visiting faculty member at Central India Regional Council of Institute of Chartered Accountants of India, Kanpur and at Kanpur Chapter of the Institute of Company Secretaries of India.

**B M Agarwal,** MCom, PhD, ACS, was formerly Head of Department - Commerce, DAV College, Kanpur. He has also been a visiting faculty member at Central India Regional Council of Institute of Chartered Accountants of India, Kanpur and at Kanpur Chapter of the Institute of Company Secretaries of India.




## Statistics (For CA Foundation), 6e

P N Arora & S Arora

### About the Book

The book has been primarily designed for the students of C.A. Foundation course for the subject Statistics. Written in concise and self-explanatory style, this book lucidly explains each concept with the help of solved examples. Keeping in view the new syllabus, a new chapter on Time Series Analysis has been included. Further, Statistical Tables for student's ready reference have also been included towards the end of the book.

### Key Features

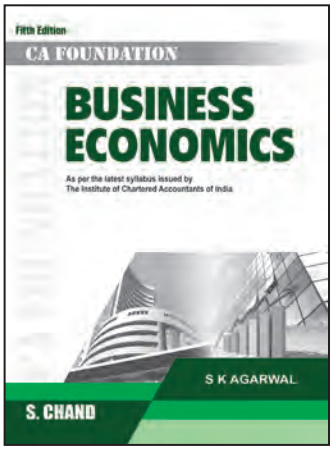
- 300+ examples have been provided throughout the text to aid students in understanding of the concepts
- Multiple choice questions having more than 1700 questions (with answers) as well as hints/ solutions for select questions have been provided for practice
- Question bank having more than 950 questions has been provided at the end of each chapter to test understanding of the concepts

**ISBN: 9789352833702 | Price: ₹ 599 | Pages: 560 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Statistical Description of Data, 2. Measures of Central Tendency or Averages, 3. Measures of Dispersion, 4. Correlation Analysis, 5. Regression Analysis, 6. Time Series Analysis, 7. Probability, 8. Expected Value or Mathematical Expectation, 9. Theoretical Distributions, 10. Index Numbers • *Statistical Tables*

**P N Arora,** M.A., Ph.D. (DU), Former Professor of Mathematics Dayal Singh College University of Delhi, Delhi.




## Business Economics (For CA Foundation), 5e

S K Agarwal

### About the Book

The book has been primarily designed for the students of C.A. Foundation course for the subject Business Economics. It has been revised and remodelled according to the newly introduced C.A. Foundation course. Written in concise and self-explanatory style, this book contains detailed notes and Multiple Choice Questions-Answers with detailed reasoning on Business Economics.

### Key Features

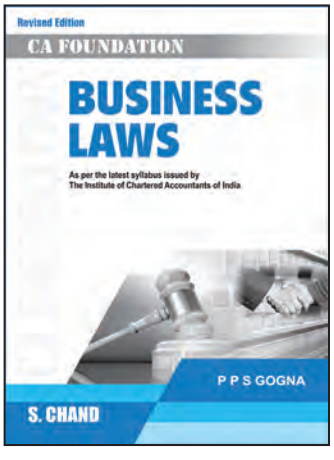
- Over 375 chapter-end and 650 book-end multiple choice questions-answers with detailed reasoning to test and strengthen understanding of the concepts
- Specifically designed as per the new CA Foundation syllabus
- New chapter on Business Cycles

**ISBN: 9789352833559 | Price: ₹ 325 | Pages: 264 | Size: 6.75" X 9.5" (Paperback)**

### Contents

I. Introduction to Business Economics: 1. Nature and Scope of Business Economics, 2. Basic Problems of an Economy and Role of Price Mechanism, II: Theory of Demand and Supply: 1. Law of Demand and Elasticity of Demand, 2. Theory of Consumer Behaviour, 3. Law of Supply and Elasticity of Supply, III: Theory of Production and Cost: 1. Theory of Production, 2. Theory of Cost, IV: Price Determination in Different Markets: 1. Meaning and Types of Market, 2. Determination of Equilibrium Price, 3. Price – Output Determination under Different Market Forms, V: Business Cycles • *Additional Questions and Answers with Detailed Reasoning*

**S K Agarwal,** Faculty, The Institute of Chartered Accountants of India.




## Business Laws (For CA Foundation), 6e

P P S Gogna

### About the Book

The book has been primarily designed for the students of C.A. Foundation course for the subject Business Laws. Written in concise and self-explanatory style, this book provides conceptual knowledge and understanding of various acts, such as, The Indian Contract Act, 1872; The Sale of Goods Act, 1930; The Indian Partnership Act, 1932. Further, chapters on The Limited Liability Partnership Act, 2008 and The Companies Act, 2013, have also been incorporated in the book keeping in view the new syllabus.

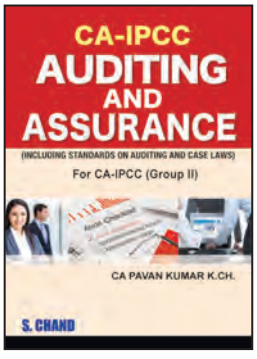
### Key Features

- Over 400 Practical Type Analytical Examples
- More than 300 Subjective Examples with detailed notes
- 1400+ Multiple Choice Questions – Answers with detailed reasoning

**ISBN: 9789352833566 | Price: ₹ 750 | Pages: 696 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Part-I: The Indian Contract Act, 1872: 1. Nature and Kinds of Contracts, 2. Offer and Acceptance, 3. Consideration, 4. Capacity to Contract, 5. Free Consent, 6. Legality of Object and Consideration, 7. Void Agreements, 8. Contingent Contracts, 9. Quasi Contracts, 10. Performance of Contracts, 11. Discharge of Contracts, 12. Breach of Contract, Part-II: The Sale of Goods Act, 1930: 13. Nature and Formation of Contract of Sale, 14. Conditions and Warranties, 15. Transfer of Ownership and Delivery of Goods, 16. Unpaid Seller and His Rights, 17. Auction Sale, Part-III: The Indian Partnership Act, 1932: 18. General Nature of Partnership, 19. Registration of a Firm, 20. Rights and Duties of Partners (Mutual Relations of Partners), 21. Liabilities of the Firm and its Partners and Reconstitution of a Firm, 22. Dissolution of a Firm, Part-IV: The Limited Liability Act, 2008: 23. Nature and Scope of Limited Liability Partnerships, 24. Features, Characteristics and Business Operations, 25. Incorporation of LLP and Differences with Other Forms of Organizations, Part-V: The Companies Act, 2013: 6. Nature and Kinds of Companies, 27. Formation of a Company, 28. Memorandum of Association, 29. Articles of Association, 30. Shares of a Company, 31. Share Capital




## Auditing and Assurance

Pavan Kumar K. Ch.

**ISBN: 9788121998307**
**Code: 1007A00561**
**Price: ₹ 350 | Pages: 768**
**Size: 6.75" X 9.5" (Paperback)**

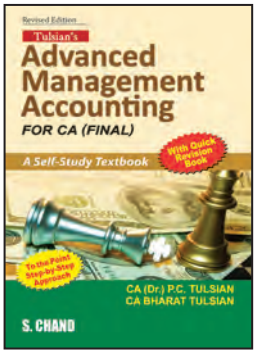
### Contents

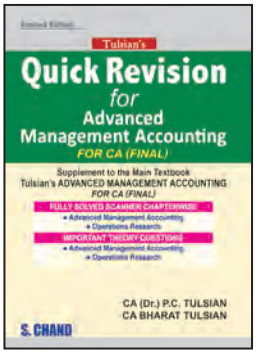
1. Nature of Auditing, 2. Basic Concepts in Auditing, 3. Preparation for and Audit, 4. Internal Control, 5. Vouching, 6. Verification of Assets and Liabilities, 7. Company Auditor, 8. Company Audit-II, 9. Special Audits, 10. Auditing Standards, Statements and Guidance Notes – An Overview, 11. Frequently Asked Questions, 12. Practical Questions, 13. Previous Years Questions Papers, 14. Question Bank, 15. Important Case Laws

## Advanced Management Accounting, For CA Final

P C Tulsian & Bharat Tulsian

Combo Pack




**ISBN: 9789384857639**
**Code: 1007C00549**
**Price: ₹ 1195 | Pages: 1,086**
**Size: 6.75" X 9.5" (Paperback)**

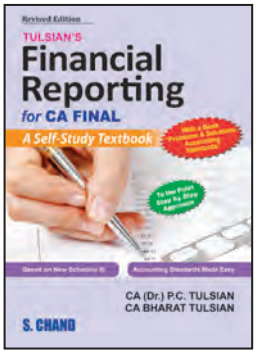
### Contents

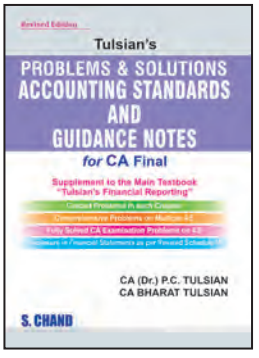
Section-A: Advanced Management Accounting: 1. Management Accounting - An Overview, 2. Marginal Costing, 3. Relevant Costing, 4. Marginal Costing—Decision Making, 5. Budgeting and Budgetary Control, 6. Standard Costing—Material Cost Variances, 7. Standard Costing—Labour Cost Variances, 8. Standard Costing—Overhead Variances, 9. Standard Costing—Sales Variances, 10. Standard Costing—Miscellaneous Variances, 11. Transfer Pricing, 12. Activity Based Costing, 13. Operating Costing (Service Costing), 14. Just-in-Time (JIT), 15. Target Costing, 16. Total Quality Management (TQM), 17. Throughput Accounting and Theory of Constraints, 18. Product Life Cycle Costing, 19. Balanced Score Card, 20. Value Chain Analysis, 21. Miscellaneous Advanced Issues in Costing, 22. Responsibility Accounting, 23. Cost Control and Cost Reduction, 24. Uniform Costing, Section-B: Operations Research: 1. Linear Programming Formulation, 2. Linear Programming-Graphical Method, 3. Linear Programming- Simplex Method, 4. Assignment Problems, 5. Transportation Problems, 6. Critical Path Method-Drawing Network, 7. PERT, 8. Crashing, Resource and Something , 9. Simulation, 10. Learning Curve Theory, Section-C: Important Theory Question with Answers (Advanced Management Accounting), Section-D: Important Theory Question with Answers (Operations Research) Section-E: Question Papers (CA Final Examination Question Papers

## Financial Reporting for CA Final

P C Tulsian & Bharat Tulsian

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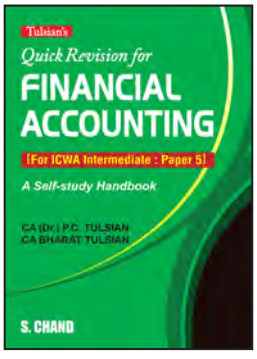



**ISBN: 9788121941709**
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**Price: ₹ 1399 | Pages: 1,478**
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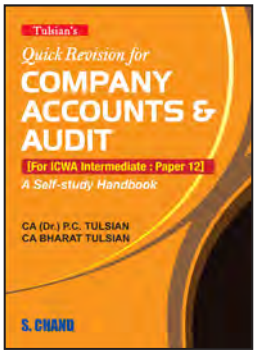
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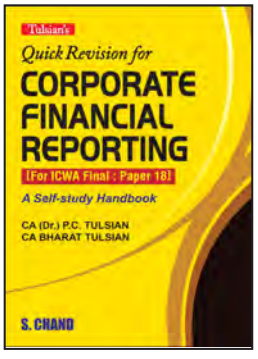
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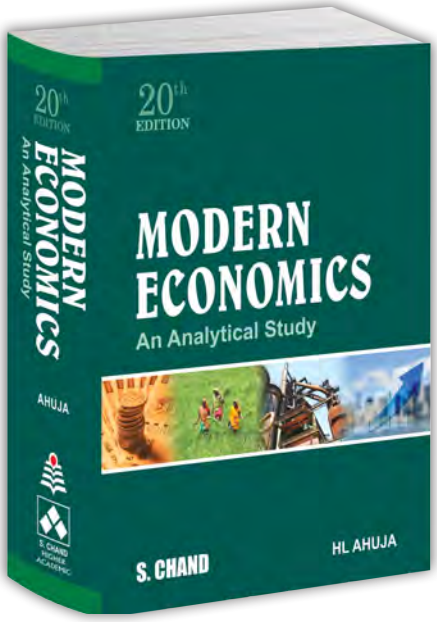
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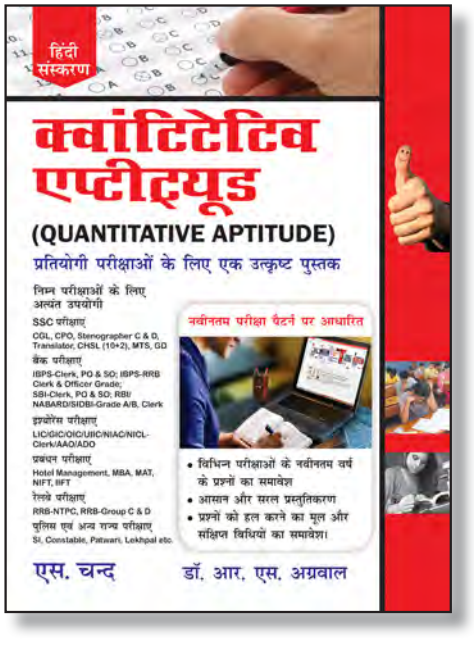
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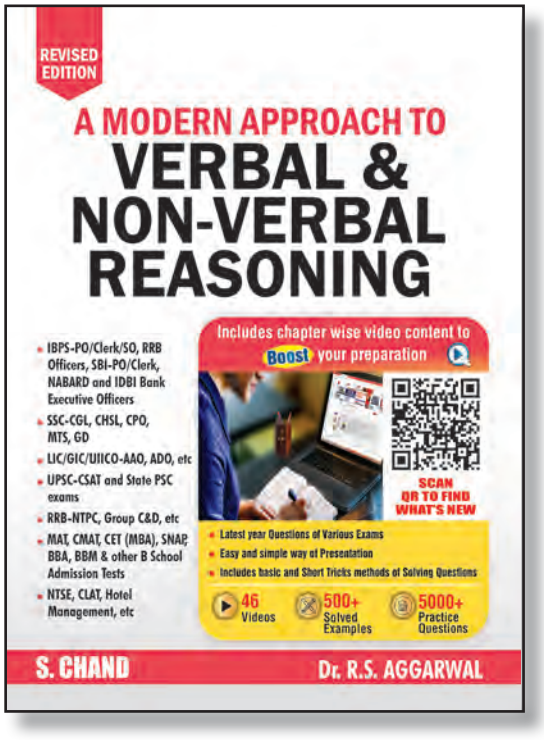
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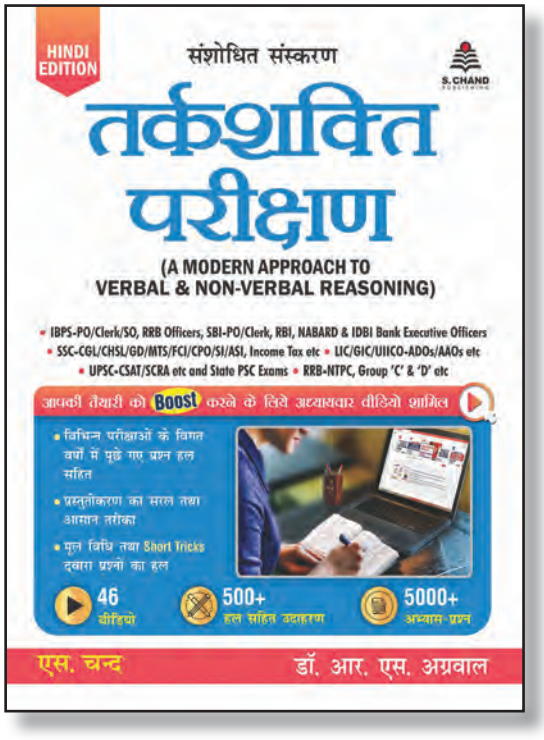
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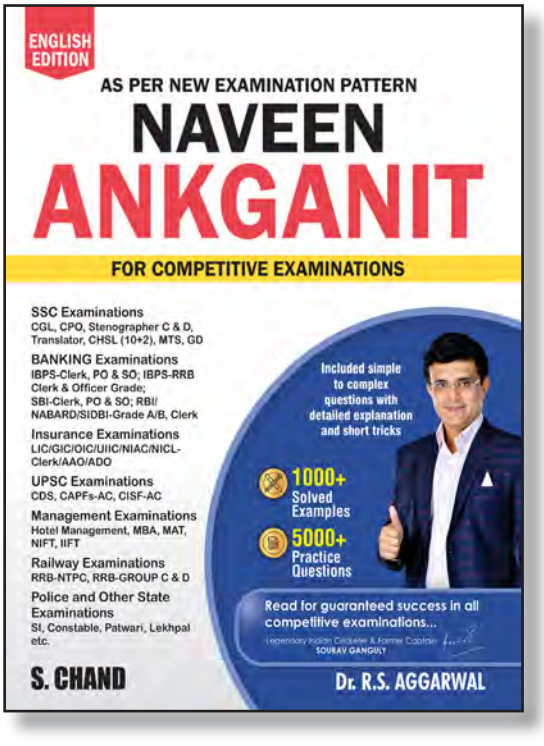
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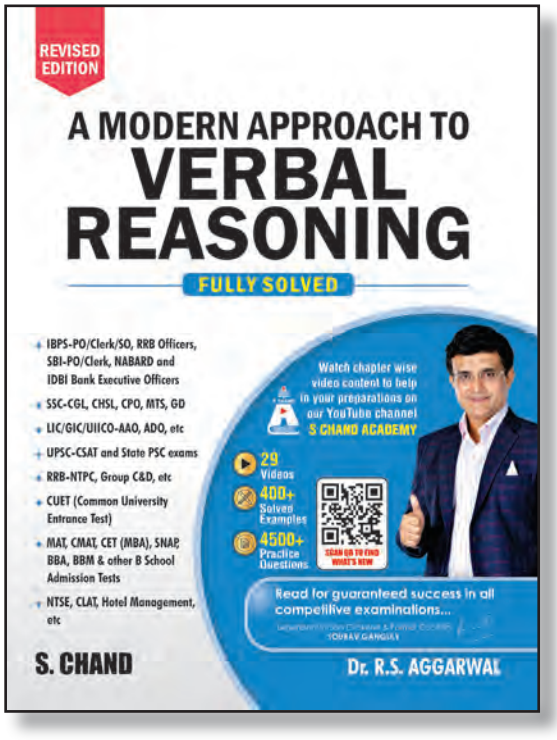

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The book,नवीन अंकगणित has a special place of respect and acceptance among students and aspirants appearing for a wide gamut of competitive examinations. As a front-runner and a first choice, this book has solidly stood by the students and helped them fulfil their dreams by providing a strong understanding of the subject and rigorous practice of solving problems. Based on suggestions received from our readers, we are excited to present this new English edition of Naveen Ankganit, keeping in mind the current level of questions asked in all competitive examinations. This book is useful for SSC Assistant Grade, LDC, UDC, Income Tax Assistant Grade, Police Sub-Inspector, Bank PO Specialist Officer, LIC, PCS, Railway Exam, Management Exam, NDA, and CDS. In accordance with the recently changed pattern in the SSC exams, all the new subjects including algebra, linear and quadratic equations, trigonometry, lines and angles triangle, quadrilateral, circle, polygon etc. (which have been included in the syllabi of examinations) are available in this book.

**ISBN: 9789355016690 | Price: ₹ 599 | Pages: 672 | Size: 8.25" X 10.5" (Paperback)**




## A Modern Approach to Verbal Reasoning: (Fully Revised Video Edition)

Fully Revised Video Edition

Dr. R S Aggarwal

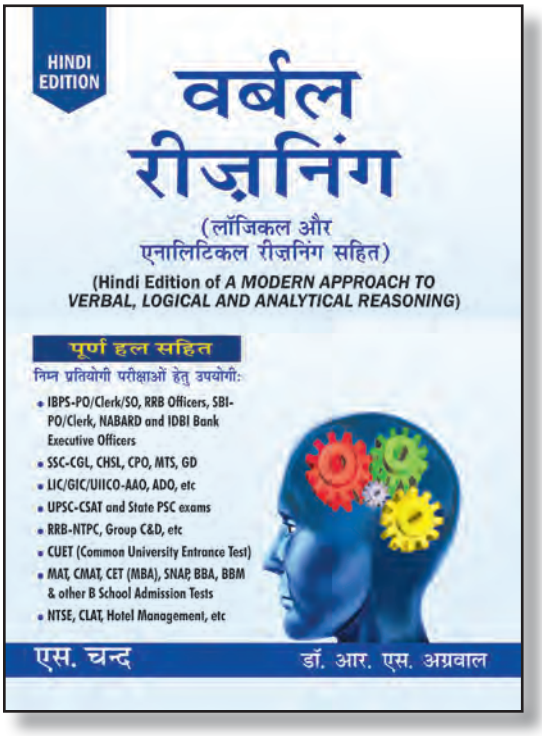
### About the Book

Reasoning is an important section in every competitive examination, be it MBA, MAT, CAT, XAT, Bank PO, LIC AAO, GIC AAO, SSC, Railways, Hotel management, or even campus interviews. Much success depends on the candidate's performance in this section. This book covers the verbal reasoning part, which involves understanding and reasoning using concepts framed in words and numbers.

### Key Features

(a) Questions based on the latest pattern in a classified, well arranged, and graded manner.
(b) Maximum number of questions for practice, with solutions that can teach one the right approach to deal with similar questions that one may come across elsewhere.
(c) Solved examples with full explanation to bring out the essence of each topic.
(d) Latest questions (based on memory) and their answers/solutions from different competitive examinations like SSC, SBI-CGL Tier I, RRB, Hotel Management, Railway Recruitment, CMAT, CSAT, etc.

**ISBN: 9789355014849 | Price: ₹ 649 | Pages: 668 | Size: 8.25" X 10.5" (Paperback)**




## Verbal Reasoning: (Logical Aur Analytical Reasoning Sahit) Hindi

Dr. R S Aggarwal

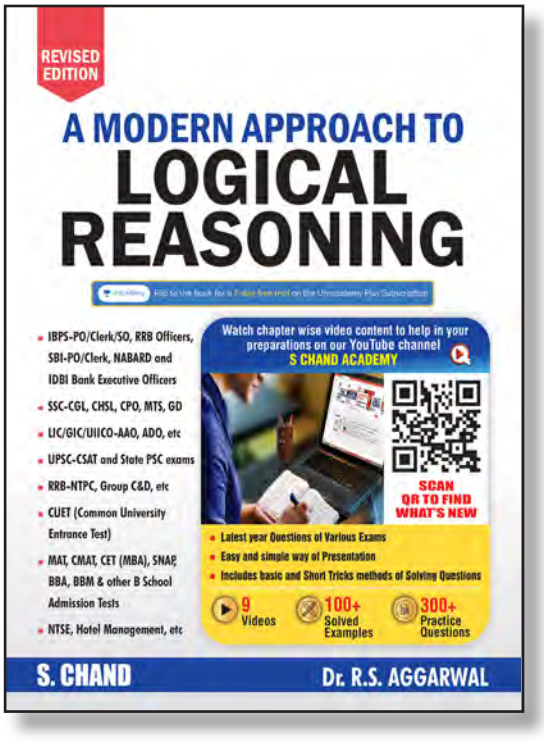
### पुस्तक के विषय में

भाषिक, तार्किक और विश्लेषणात्मक तर्कशक्ति परीक्षण (Verbal, Logical and Analytical Reasoning) जैसे महत्त्वपूर्ण विज़य पर लिखी गयी इस पुस्तक के नए संस्करण को प्रस्तुत करने में हमें अपार प्रसन्नता हो रही है। आजकल प्रत्येक प्रतियोगी परीक्षा — MBA, MAT, CAT, Bank PO, LIC AAO, GIC AAO, SSC, Railways, Hotel Management, SBI-CGL Tier I, AFCAT, SBI (PO), RBI Grade B और यहाँ तक कि कैंपस साक्षात्कार में भी सफलता तर्कशक्ति अनुभाग में उम्मीदवार के प्रदर्शन पर निर्भर करती है। इसलिए इसके लिए बहुत तेज़, सधे हुए और बुद्धिमान दृष्टिकोण की आवश्यकता होती है। यह पुस्तक इस उद्देश्य को पूरा करती है।

### प्रमुख विशेषताएँ

- नवीनतम परीक्षा पैटर्न के आधार पर प्रश्नों (स्मृति पर आधारित) का संग्रह।
- एक वर्गीकृत, सुव्यवस्थित और श्रेणीबद्ध तरीके से नवीनतम पैटर्न पर आधारित सभी

**ISBN: 9789352838585 | Price: ₹ 525 | Pages: 728 | Size: 8.25" X 10.5" (Paperback)**




## A Modern Approach to Logical Reasoning

Fully Revised Video Edition

Dr. R S Aggarwal

### About the Book

This revised edition of *A Modern Approach to Logical Reasoning,* while retaining the key strengths and structure of the previous edition, like presenting all types of questions and solved examples in a classified, well arranged, and graded manner, brings to the readers additional questions from various competitive examinations like SSC-CGL Tier I, CSAT, SBI (PO), RBI Grade B, etc.

### Key Features

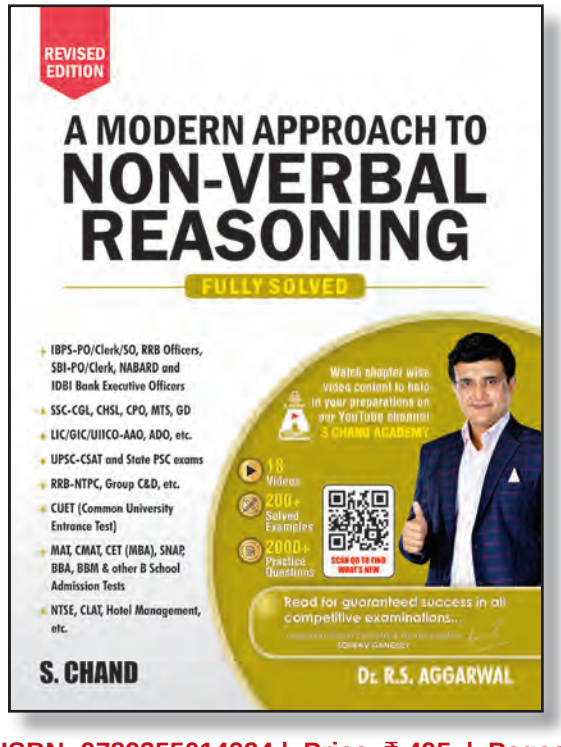
((a) An additional section with new questions from recent examinations.

(b) These questions are based on the latest trend and pattern of examinations.

(c) Complete solutions have been added to provide a simple and clear understanding of the logic involved in the questions.

(d) Each chapter will help you understand how to solve the questions in an

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## A Modern Approach to Verbal Reasoning: (Fully Revised Video Edition)

Fully Revised Video Edition

Dr. R S Aggarwal

### About the Book

While retaining the key strengths and structure of the previous edition, this revised edition of A Modern Approach to Non-Verbal Reasoning, brings to the readers additional questions from various competitive examinations as per the latest pattern and trends.

Recent questions (based on memory) and their answers/ solutions from different competitive examinations like SSC,

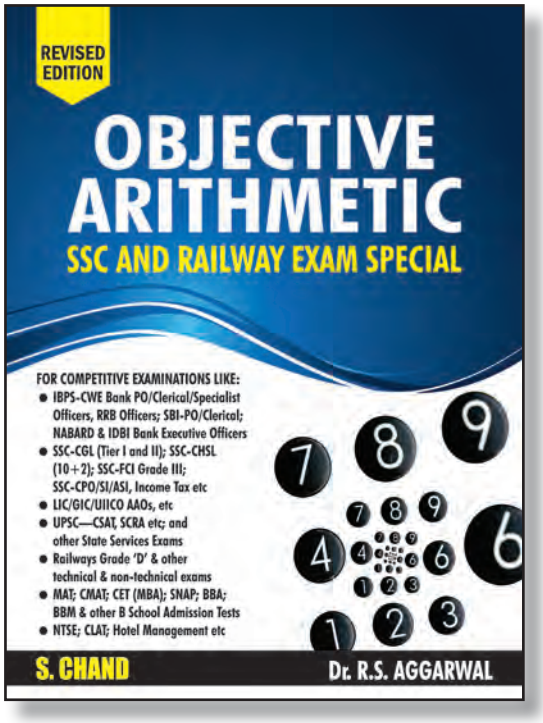
RRB, IBPS, AFCAT, SBI, RBI Grade B, etc. has been added.

### Key Features

The book carefully guides the candidates through faster, shorter and intelligent paths to take up the study of Non-Verbal.

- By suitably arranging the questions based on the latest examination patterns.
- By providing a large number of questions for practice, with solutions that can teach one the right approach towards solving them.
- By providing solved examples with full explanations to bring out the essence of each topic.
- Each chapter will help you understand how to solve the questions in an easy way as we are providing video solutions (Scan QR code).

**ISBN: 9789355014924 | Price: ₹ 495 | Pages: 436 | Size: 8.25" X 10.5" (Paperback)**




## Objective Arithmetic (SSC and Railway Exam Special)

Dr. R S Aggarwal

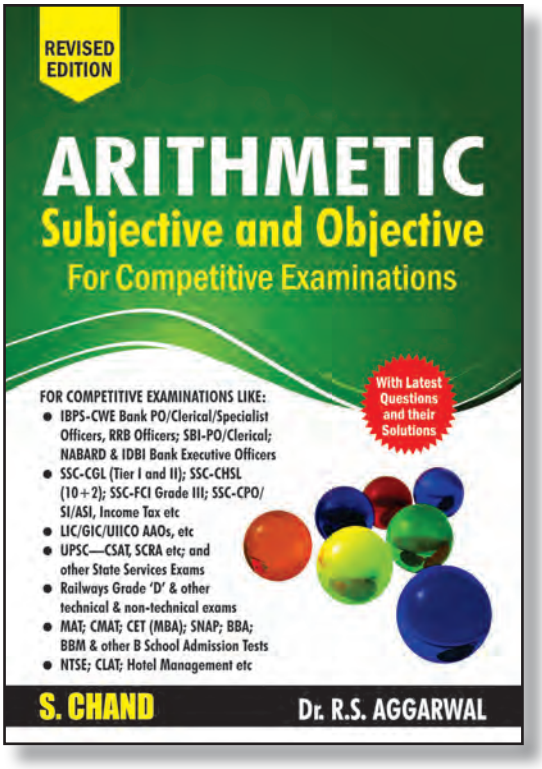
### About the Book

This revised edition of *Objective Arithmetic* retains the novelty of the previous edition and continues to be extremely reader-friendly and practice-oriented. It brings to the readers additional questions from various competitive examinations like CDS, SSC-CGL, IBPS-CWE Bank PO, RBI Grade B, etc.

### Key Features

(a) An additional section with new questions from recent examinations.
(b) These questions are based on the latest trend and pattern of examinations.
(c) Complete solutions added to facilitate better understanding of the problems.

**ISBN: 9789352832224 | Price: ₹ 650 | Pages: 548 | Size: 8.25" X 10.5" (Paperback**




## Arithmetic (Subjective and Objective), (Revised Edition)

Dr. R S Aggarwal

### About the Book

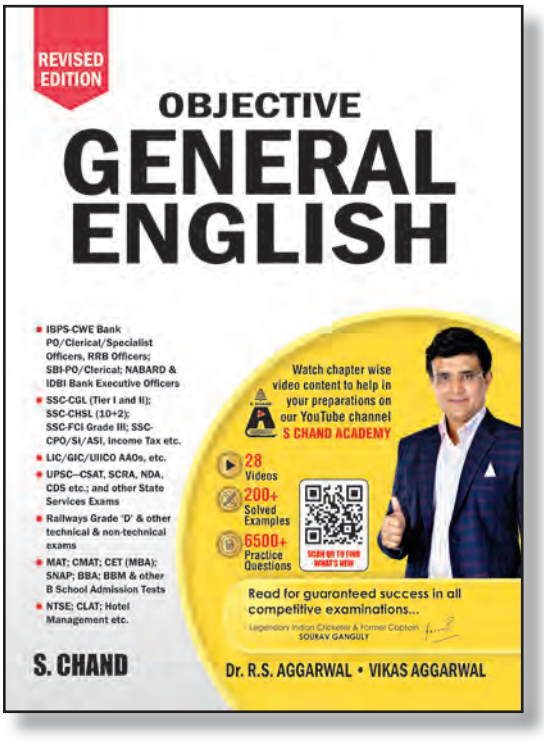
One of the key strengths of Arithmetic for Competitive Examinations has been that it includes both subjective and objective type questions, which is found in very few books in the market. It also lays down several short-cut methods to solve questions quickly—a crucial factor in succeeding in such exams.

Keeping up with the tradition of providing high class content to the readers, this edition, by way of revision, brings to the readers additional questions from various competitive examinations like AFCAT, SNAP, SSC-CGL, IBPS-CWE Bank Clerk, SBI PO, RBI Grade B Officers, etc.

### Key Features

(a) An additional section with new questions from recent examinations.
(b) These questions are based on the latest trend and pattern of examinations.
(c) Complete solutions added to facilitate better understanding of the problems.

**ISBN: 9789352535767 | Code: 1014D00101 | Price: ₹ 599 | Pages: 632 | Size: 6.75" X 9.5" (Paperback)**




## Objective General English

Dr. R S Aggarwal & Vikas Aggarwal

Fully Revised Video Edition

### About the Book

Over the last 25 years, this book has earned the reputation of being one of the market leaders in the subject and has helped candidates score high in the General English paper of most competitive examinations. With changing times and in keeping up with the modern trends in examinations we have provided additional questions from defferent competitive examinations held in the recent times.

In addition, we have also provided detailed explanations to answers of most of the questions, especially those that are tough or confusing. The book continues to be comprehensive, rigorous, yet very easy to understand.

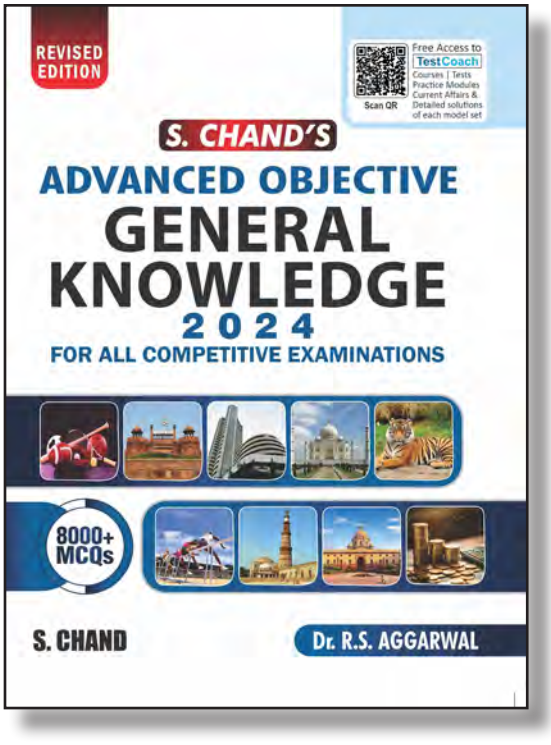
### Key Features

The book carefully guides the candidates through faster, shorter, and intelligent paths to take up the study of General English:

- By suitably arranging the questions based on the latest examination patterns.
- By providing a large number of questions for practice, with explanation that can teach one the right approach towards understanding them.
- By providing number of practice sets with full explanations to bring out the essence of each topic.
- By helping you understand how to solve the questions in an easy way, as we are providing video solutions (QR code).

**• 28 Videos • 200+ Solved Examples • 6500+ Practice Questions**

**ISBN: 9789355015075 | Price: ₹ 655 | Pages: 536 | Size: 6.75" X 9.5" (Paperback)**




## S.Chand's Advanced Objective General Knowledge 2024

Dr. R S Aggarwal

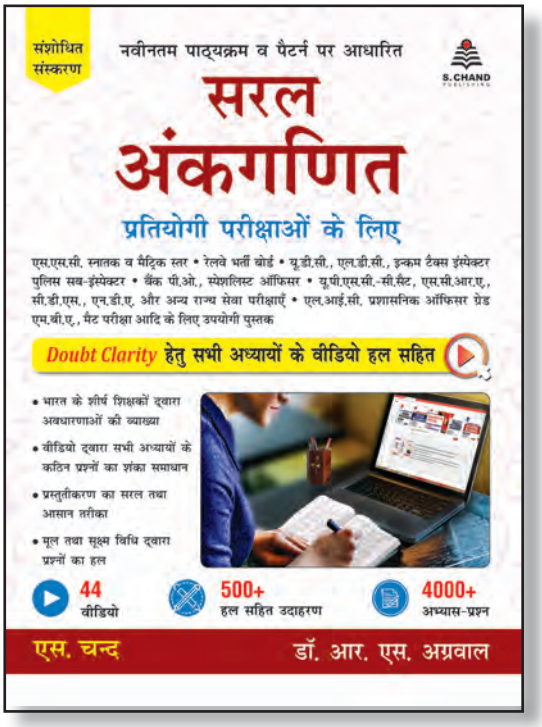
### About the Book

This book is a perennial favourite among competitive exam aspirants. Renowned for its comprehensive coverage, enduring popularity, and regular updates to match current trends, the book offers an expansive question bank, including original questions from diverse exams. With its structured approach, featuring segregated questions and specialized Model Sets, it ensures a focused and organized study experience for aspirants across various subjects. This book is also updated to fit the current examination trends. Original questions (based on memory) from exams like SSC, Banking, Railways, UPSC and other state PSC exams, Teacher, Police and other state exams and several others have been added in different sections of the book—General Science, History, Indian Polity, Economics, Geography, and General Awareness.

### Key Features

- Comprehensive coverage of original questions from various competitive exams.
- Enduring popularity despite strong competition.
- Updated to align with current examination patterns and trends.
- Expanded question variety with thousands of new MCQs.
- Structured approach with segregated questions and specially designed Model Sets for focused preparation.

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## सरल अंकगणित प्रतियोगी परीक्षाओं के लिए

### नवीनतम पाठ्यक्रम व पैटर्न पर आधारित ( संशोधित संस्करण )

### सभी अध्यायों के वीडियो हल सहित

**डा. आर. एस. अग्रवाल**

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**पुस्तक के विषय में**

यह पुस्तक विभिन्न एकदिवसीय परीक्षाओं के लिए अत्यंत ही उपयोगी है। सरल अंकगणित पुस्तक के इस नवीन संस्करण में विगत वर्षों के विभिन्न प्रश्नों तथा नवीन अवधारणाओं पर आधारित प्रश्नों को शामिल किया गया है। इस पुस्तक में प्रत्येक अध्याय के लिए वीडियो तैयार किए गए हैं, इन वीडियो में शिक्षक द्वारा सभी प्रकार के प्रश्नों की परंपरागत तथा सूक्ष्म दोनों विधियाँ बताई गई हैं। अत: यह पुस्तक सभी

प्रतियोगी परीक्षाओं की तैयारी करने वाले प्रतियोगियों को सफलता की ओर अग्रसर करेगी।

**प्रमुख विशेषताएँ**

- प्रत्येक अध्याय के लिए वीडियो हल।
- नवीनतम परीक्षा पैटर्न पर आधारित प्रश्नों का संग्रह।
- पुस्तक मे 4000+ प्रश्नों का संकलन किया गया है।
- पुस्तक मे 500+ उदाहरणों का संग्रहीत किया गया है।
- इस पुस्तक को विभिन्न परीक्षाओं के पाठ्यक्रम के अनुसार संशोधित किया गया है।

**ISBN: 9789355011787 | Price: ₹ 399 | Pages: 488 | Size: 8" X 10.5" (Paperback)**




## प्रतियोगी परीक्षाओं के लिए अंकगणित

### ( संशोधित संस्करण )

**डा. आर. एस. अग्रवाल एवं दीपक अग्रवाल**

**पुस्तक के विषय में**

विभिन्न प्रतियोगी परीक्षाओं में सम्मिलित हो रहे अभ्यर्थियों के लिए यह पुस्तक 'प्रतियोगी परीक्षाओं के लिए अंकगणित' अत्यन्त लोकप्रिय एवं अच्छी पुस्तकों में से एक है। चूँकि इन परीक्षाओं के पाठ्यक्रमों में काफी बदलाव हुए हैं,

इसलिए इस पुस्तक के संशोधित संस्करण की आवश्यकता महसूस की गयी। प्रतियोगी परीक्षाओं के लिए अंकगणित पुस्तक के इस नवीन संस्करण में विगत वर्षों के विभिन्न प्रश्नों तथा नवीन अवधारणाओं पर आधारित प्रश्नों को शामिल किया गया है।

आशा करता हूँ कि बदले हुए प्रतियोगी परीक्षाओं के लिए यह पुस्तक आप के लिए अत्यंत उपयोगी साबित होगी।

**प्रमुख विशेषताएँ**

- नवीनतम परीक्षा पैटर्न पर आधारित प्रश्नों को समाहित किया गया है।
- विभिन्न अवधारणाओं को लगभग 400 उदाहरणों तथा 3000 प्रश्नों द्वारा सरलता से समझाया गया है।
- इसमें चार नये अध्याय सारणीयन, दण्ड-आलेख, रेखा चित्र, पाई-चार्ट जोड़े गये हैं।
- इस पुस्तक को विभिन्न परीक्षाओं के पाठ्यक्रम के अनुसार संशोधित किया गया है।

**ISBN: 9788194771715 | Price: ₹ 525 | Pages: 484 | Size: 8"X 10.55" (Paperback)**




## वस्तुनिष्ठ अंकगणित प्रतियोगी परीक्षाओं के लिए

**( संशोधित संस्करण )**

Fully Revised Video Edition

### डा. आर. एस. अग्रवाल

**पुस्तक के विषय में**

विभिन्न प्रतियोगी परीक्षाओं में सम्मिलित हो रहे अभ्यर्थियों के लिए यह पुस्तक 'वस्तुनिष्ठ अंकगणित' अत्यन्त लोकप्रिय एवं अच्छी पुस्तकों में से एक है। चूँकि इन परीक्षाओं के पाठ्यक्रमों में काफी बदलाव हुए हैं, जैसे एडवांस मैथमेटिक्स को शामिल करना, इसलिए इस पुस्तक के संशोधित संस्करण की आवश्यकता महसूस की गयी।

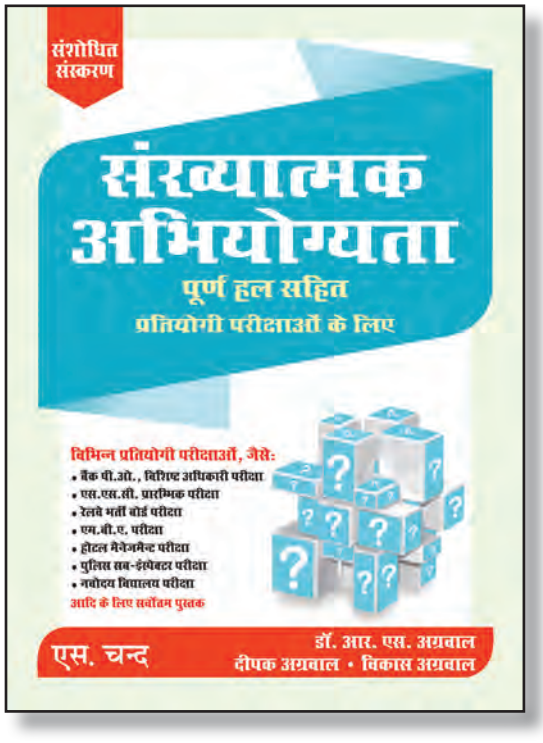
वस्तुनिष्ठ अंकगणित पुस्तक के इस नवीन संस्करण में विगत वर्षों के विभिन्न प्रश्नों तथा नवीन अवधारणाओं पर आधारित प्रश्नों को शामिल किया गया है। इस पुस्तक में

प्रत्येक अध्याय के लिए वीडियो तैयार किए गए हैं। इन वीडियो में शिक्षक द्वारा सभी प्रकार के प्रश्नों की परंपरागत तथा सूक्ष्म दोनों विधियाँ बताई गई हैं।

**प्रमुख विशेषताएँ**

- प्रत्येक अध्याय के लिए वीडियो हल।
- नवीनतम परीक्षा पैटर्न पर आधारित प्रश्नों को समाहित किया गया है।
- विभिन्न अवधारणाओं को लगभग 500 उदाहरणों तथा
- 3000 प्रश्नों द्वारा सरलता से समझाया गया है।
- इसमें चार नये अध्याय-भिन्न, आयत-चित्र, निर्देशांक ज्यामिति, प्रिज्म और पिरामिड जोड़े गये हैं।
- इस पुस्तक को विभिन्न परीक्षाओं के पाठ्यक्रम के अनुसार संशोधित किया गया है।

**ISBN: 9789355015198 | Price: ₹ 550 | Pages: 516 | Size: 8" X 10.5" (Paperback)**




## संख्यात्मक अभियोग्यता

**( संशोधित संस्करण )**

### डा. आर. एस. अग्रवाल, दीपक अग्रवाल एवं विकास अग्रवाल

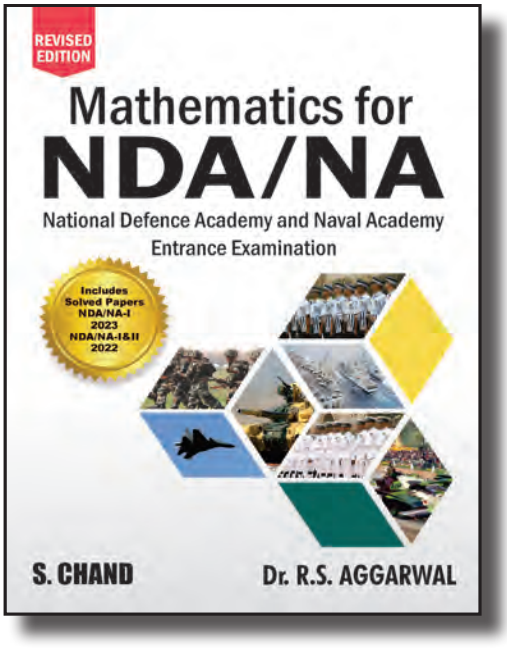
**पुस्तक के विषय में**

प्रस्तुत पुस्तक के संशोधित संस्करण का सृजन विभिन्न आयोगों एवं बोर्डो द्वारा आयोजित प्रतियोगी प्ररीक्षाओं के पाठयक्रमों का अनुसरण करते हुए किया गया है। इस पुस्तक में सभी प्रकार के वस्तुनिष्ठ प्रश्नों का अपार संकलन एवं उनके संक्षिप्त विधि से हल प्रस्तुत किये गये हैं। परन्तु पिछले कुछ वर्षो में परीक्षाओं के पाठयक्रमों में काफी बदलाव हुए हैं। इसे ध्यान में रखतें हुए इस संस्करण में हर अध्याय के अंत में एक नया अतिरिक्त प्रश्न-उत्तर संग्रह जोड़ा गया है, जिसमें हाल ही की प्रतियोगी परीक्षाओं में से लिए गए प्रश्न हल सहित सम्मिलित किए गए हैं। नवीनतम शैली पर आधारित यह पुस्तक छात्रों को विभिन्न परीक्षाओं में सफल होने में सहायक सिद्ध होगी।

**प्रमुख विशेषताएँ**

- नवीनतम पैटर्न पर आधारित
- बहु-विकल्पीय प्रश्न हल सहित
- अभ्यास के लिए पर्याप्त प्रश्न
- पिछले सालो के प्रश्न प्रत्र शामिल

**ISBN: 9789352832132 | Price: ₹ 550 | Pages: 580 | Size: 6.75" X 9.5" (Paperback)**




## Mathematics for NDA and NA, (Revised Edition)

Dr. R S Aggarwal

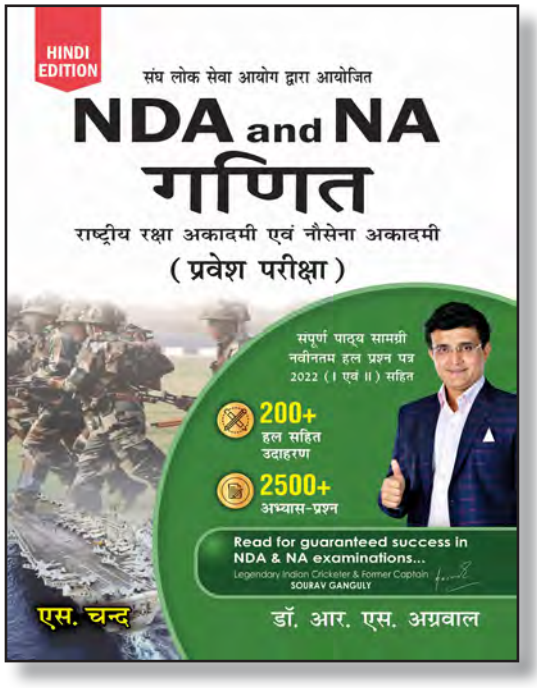
### About the Book

*Mathematics* for *NDA/NA* comprises a huge collection of objective-type questions with complete solutions. This is a uniquely designed book with several short-cut methods at appropriate places, to solve questions quickly. This book follows a topic-wise fundamental approach and covers the most important concepts of mathematics.

### Key Features

- Includes question papers of 2022 (I & II) and 2023 (I) with detailed solutions
- Review of Facts and Formulae at the beginning of each chapter
- Solved examples to facilitate easy understanding
- Comprises questions and detailed solutions from previous years' examinations (2018-2021)
- Comprehensive coverage of NDA/NA syllabus according to the new UPSC syllabus

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## NDA and NA गणित

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### (संशोधित संस्करण)

डा. आर. एस. अग्रवाल

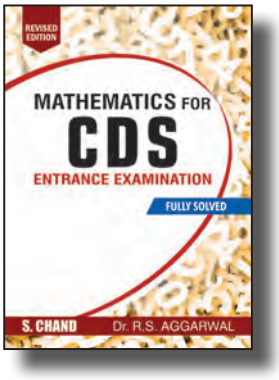
### पुस्तक के विषय में

एनडीए और एनए–गणित, डंजीमउंजपबे वित छक। दक छ। का हिंदी संस्करण है। इस पुस्तक में वस्तुनिष्ठ प्रश्नों, पूर्ण हल के साथ, का एक विशाल संग्रह है। प्रश्नों को शीघ्रता से हल करने के लिए इसमें कई शॉर्ट–कट तरीके भी दिए गए हैं। पाठकों को उच्च श्रेणी की सामग्री प्रदान करने की परंपरा को ध्यान में रखते हुए इस संस्करण में छक। दक छ। में पूछे गए नवीनतम प्रश्नों (NDA–I & II, 2022) को समाहित किया गया है। पाठकों की आवश्यकताओं और सुझावों को इस पुस्तक के संकलन के दौरान प्रमुख रूप से ध्यान में रखा गया है। आशा करता हूँ, कि यह पुस्तक एनडीए प्रवेश परीक्षा करने वाले अभ्यर्थियों के अत्यंत महत्वपूर्ण उपयोगी साबित होगी।

### प्रमुख विशेषताएँ

- नवीनतम परीक्षा पैटर्न के आधार पर प्रश्नों (स्मृति पर आधारित) का संग्रह।
- एक वर्गीकृत, सुव्यवस्थित और श्रेणीबद्ध तरीके से नवीनतम पैटर्न पर आधारित सभी प्रकार के प्रश्नों का समावेश।
- हल सहित अभ्यास के लिए पर्याप्त प्रश्नों का समावेश जो परीक्षा में समान प्रकार के प्रश्नों को हल करने के लिए सही मार्गदर्शन कर सकते हैं।
- प्रत्येक विषय का सार समझाने के लिए पूरी तरह से हल किए गए उदाहरण।

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## Mathematics for CDS Entrance Examination

(Revised Edition)

Dr. R S Aggarwal

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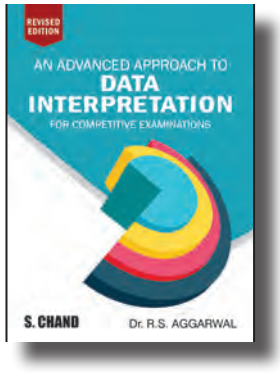
*Mathematics for CDS Entrance Examination* retains its key strength in offering to students a huge accumulation of objective type questions with their solutions, while adding new questions to help students understand the latest pattern and trend of questions asked in recent examinations. These additional questions and their solutions, at the end of each chapter, from as recent as 2017 CDS exam would definitely help candidates prepare for the test better and infuse confidence among them.

### Key Features

(a) An additional section with new questions from recent examinations.
(b) Fully solved examples with explained techniques.
(c) A huge collection of practicable questions, fully solved.
(d) References of questions asked in various Competitive Examinations, on memory basis.

### Contents

ARITHMETIC: 1. Numbers, 2. H.C.F. and L.C.M. of Numbers, 3. Decimal Fractions, 4. Square Roots, 5. Percentage, 6. Average, 7. Ratio and Proportion, 8. Partnership, 9. Profit and Loss, 10. Unitary Method, 11. Time and Work, 12. Time and Distance, 13. Problems on Ages, 14. Simple Interest, 15. Compound Interest, 16. Logarithms, MENSURATION: 17. Area, 18. Volume and Surface Areas, ALGEBRA: 19. Basic Operations and Factorization, 20. H.C.F. and L.C.M. of Polynomials, 21. Linear Equations, 22. Quadratic Equations, 23. Rational Expressions, 24. Surds and Indices, 25. Set Theory, TRIGONOMETRY: 26. Identities and T-Ratios, 27. Height and Distance, GEOMETRY: 28. Lines and Angles, 29. Polygons, 30. Triangles, 31. Quadrilaterals and Parallelograms, 32. Circles, 33. Loci, COORDINATE GEOMETRY: 34. Coordinate Geometry, STATISTICS: 35. Statistical Data (Frequency Distribution, Mean, Mode, Median and Standard Deviation), 36. Data Interpretation




## An Advanced Approach to Data Interpretation,

(Revised Edition)

Dr. R S Aggarwal

**ISBN: 9789352832088**

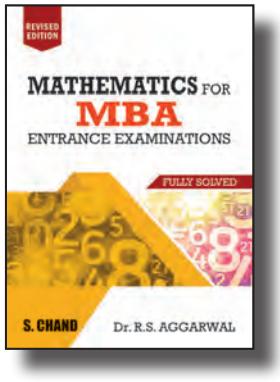
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*An An Advanced Approach to Data Interpretation for Competitive Examinations* continues with the coverage of all important topics in detail and inclusion of necessary theory and solved examples covering all types of questions. The book has been revised keeping in mind the latest trends and pattern of question in various competitive examinations. Questions from exams like SBI-PO, RBI, IBPS RRB, SSC-CGL, etc, have been placed at the end of chapters for practice, along with their solutions.

### Key Features

(a) Coverage of all types of questions on Tabulation, Bar-Graphs, Line-Graphs and Pie-Charts'.
(b) Fully solved examples with explained techniques.
(c) A huge collection of practicable questions, fully solved.
(d) References of questions asked in various Competitive Examinations, on memory basis.




## Mathematics for MBA Entrance Examinations,

(Revised Edition)

Dr. R S Aggarwal

**ISBN: 9789352832101**
**Code: 9789352832101**
**Price: ₹ 550 | Pages: 664**
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### About the Book

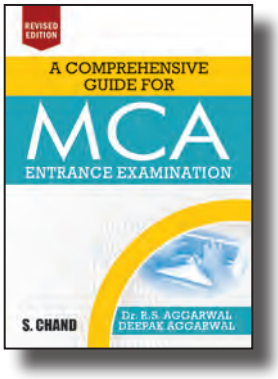
This book is an efficient Guide for the candidates preparing for the MBA entrance examinations. The book contains a huge accumulation of objective type questions (fully solved) by short-cut methods.

### Key Features

(a) Strictly according to the syllabi prescribed by various universities for MBA entrance examinations.
(b) A huge accumulation of objective type questions (fully solved) by short-cut methods.
(c) Previous years' questions included.

### Contents

Unit-1: Algebra: 1. Basic Operations and Factorization, 2. HCF and LCM of Polynomials, 3. Linear Equations, 4. Quadratic Equations, 5. Rational Expressions, 6. Surds and Indices, 7. Set Theory, Unit-2: Arithmetic: 8. Numbers, 9. HCF and LCM of Numbers, 10. Decimal Fractions, 11. Square Roots, 12. Percentage, 13. Average, 14. Ratio and Proportion, 15. Partnership, 16. Profit and Loss, 17. Unitary Method, 18. Time and Work, 19. Time and Distance, 20. Problems on Ages, 21. Simple Interest, 22. Compound Interest, 23. Logarithms, 24. Alligation or Mixture, 25. Stock and Shares, 26. True Discount, 27. Banker's Discount, Unit-3: Mensuration, Progression and Probability: 28. Area, 29. Volume and Surface Areas, 30. Progressions, 31. Probability, Unit 4: Trigonometry: 32. Identities and T-Ratios, 33. Heights and Distances, Unit-5: Geometry: 34. Lines and Angles, 35. Polygons, 36. Triangles, 37. Quadrilaterals and Parallelograms, 38. Circles, 39. Loci, Unit-6: Coordinate Geometry: 40. Coordinate Geometry, Unit-7: Statistics: 41. Statistical Data, 42. Data Interpretation (Pie Charts and Bar Diagrams)




## A Comprehensive Guide for MCA Entrance Examination

(Revised Edition)

Dr. R S Aggarwal & Deepak Aggarwal

**ISBN: 9789352832071**
**Code: 9789352832071**
**Price: ₹ 350 | Pages: 528**
**Size: 6.75" X 9.5" (Paperback)**

### About the Book

This The revised edition of A Comprehensive Guide for MCA Entrance Examination retains the key strength and rigour of the previous edition while bringing in new questions to help students understand the latest pattern and trend of questions asked in recent examinations. Questions from MCA entrance exam of BHU, JNU, TANCET, NIMCET have been placed at the end of chapters for practice, along with their solutions.

### Key Features

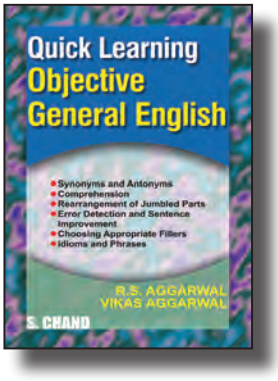
(a) Strictly according to the syllabi prescribed by various universities for MCA entrance examinations.

(b) Separate exercises for objective and descriptive type questions, fully solved.

(c) Previous years' questions included.

### Contents

Section-I: Mathematical Aptitude: 1. Matrices and Determinants, 2. Differential Calculus, 3. Integral Calculus, 4. Coordinate Geometry, 5. Analytical Geometry, 6. Algebra, 7. Real Analysis, 8. Statistics and Probability, Section-II: General Aptitude: 9. Vocabulary Test,




## Quick Learning Objective General English

Dr. R S Aggarwal & Vikas Aggarwal

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### Contents

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## वस्तुनिष्ठ सामान्य हिन्दी प्रतियोगी परीक्षाओं के लिए

( संशोधित संस्करण-)

डा. आर. एस. अग्रवाल एवं विकास अग्रवाल

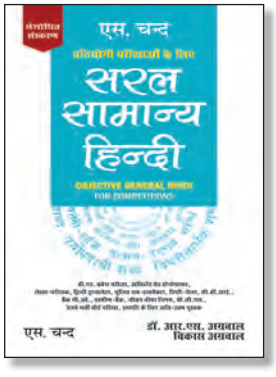
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### पुस्तक के विषय में

प्रस्तुत पुस्तक के संशोधित संस्करण का सृजन विभिन्न आयोगों एवं बोर्डों द्वारा आयोजित प्रतियोगी प्ररीक्षाओं के पाठयक्रमों का अनुसरण करते हुए किया गया है। इस पुस्तक में महत्वपूर्ण परीक्षाएं जैसे यू.पी.पी.एस.सी., भारतीय डाक विभाग, पोस्टमैन/मेलगार्ड, कर्मचारी चयन आयोग कांस्टेबल परीक्षा, जूनियर हिन्दी अनुवादक परीक्षा, डी.एस.एस. एस.बी., निम्न श्रेणी लिपिक परीक्षा इत्यादि के प्रश्नों का समावेश किया गया है। जिससे कि अभ्यार्थियों को परीक्षा-प्रश्नों की प्रवृति एवं प्रकृति से अवगत कराया जा सके।

### प्रमुख विशेषताएँ

• नवीनतम पैटर्न पर आधारित
• बहु-विकल्पीय प्रश्न हल सहित
• अभ्यास के लिए पर्याप्त प्रश्न
• पिछले सालो के प्रश्न प्रत्र शामिल




## प्रतियोगी परीक्षाओं के लिए सरल सामान्य हिन्दी

( संशोधित संस्करण )

डा. आर. एस. अग्रवाल एवं विकास अग्रवाल

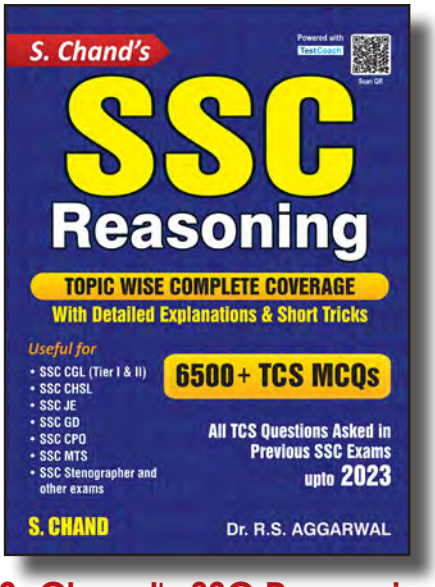
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### पुस्तक के विषय में

प्रस्तुत पुस्तक के संशोधित संस्करण का सृजन विभिन्न आयोगों एवं बोर्डों द्वारा आयोजित प्रतियोगी प्ररीक्षाओं के पाठयक्रमों का अनुसरण करते हुए किया गया है। प्रस्तुत पुस्तक में ऐसे प्रश्नों को समाहित किया गया है जिसके अभ्यास से अभ्यार्थियों के बौद्धिक स्तर को ऊँचा उठाया जा सके। इस पुस्तक में विविध प्रकार के प्रतियोगी परीक्षा में पूछे गए प्रश्नों का अध्यायबार संकलन किया गया है जिससे कि अभ्यार्थियाँ को परीक्षा-प्रश्नों की प्रकृति से अवगत कराया जा सके। इस पुस्तक में उन सभी अध्यायों को शामिल किया गया, जिनसे परीक्षा में बहुतायत में प्रश्न पूछे जाते हैं।

### प्रमुख विशेषताएँ

• नवीनतम पैटर्न पर आधारित
• बहु-विकल्पीय प्रश्न हल सहित
• अभ्यास के लिए पर्याप्त प्रश्न
• पिछले सालो के प्रश्न प्रत्र शामिल




## S. Chand's SSC Reasoning

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Dr. R S Aggarwal

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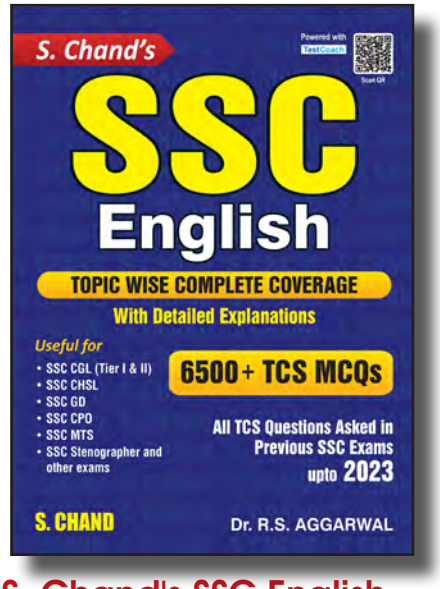
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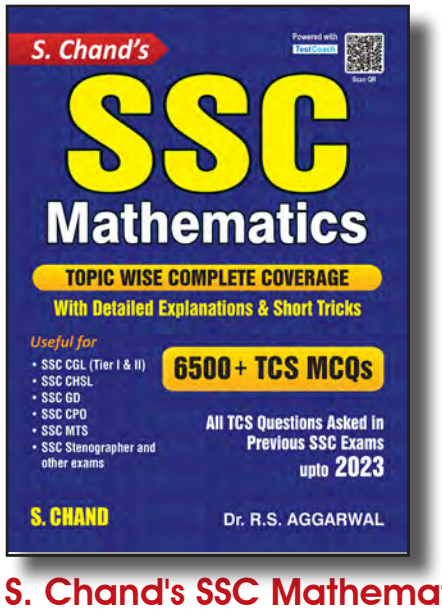

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**डा. आर. एस. अग्रवाल**

### पुस्तक के विषय में

इस पुस्तक को संकलित करने में हमारा दृष्टिकोण व्यवस्थित और संरचित है, यह सुनिश्चित करते हुए कि इसमें सीजीएल, सीपीओ, सीएचएसएल, जीडी और एमटीएस जैसी एसएससी परीक्षाओं में आने वाले सभी आवश्यक विषयों और प्रश्न प्रकारों को शामिल किया गया है। स्पष्ट अवलोकन प्रदान करने के लिए, हमने पुस्तक को 23 अध्यायों में विभाजित किया है, जिनमें से प्रत्येक रीजनिंग के एक अलग पहलू पर केंद्रित है। इन अध्यायों में मौखिक तर्क शामिल हैं: श्रृंखला समापन, सादृश्य, वर्गीकरण, कोडिंग-डिकोडिंग, रक्त संबंध, पहेली परीक्षण, दिशा बोध परीक्षण, तार्किक वेन आरेख, वर्णमाला परीक्षण, संख्या, रैंकिंग और समय अनुक्रम परीक्षण, गणितीय संचालन, शब्दों का तार्किक अनुक्रम, कैलेंडर, अंकगणितीय तर्क, लुप्त चरित्र को सम्मिलित करना, कथन और निष्कर्ष; गैर-मौखिक तर्क: श्रृंखला, आकृतियों की गिनती, दर्पण/पानी की छवियां, अंतर्निहित आकृति का पता लगाना, अधूरे पैटर्न को पूरा करना, और कागज मोड़ना/कागज काटना, क्यूब्स और पासा।

### प्रमुख विशेषताएँ

- एसएससी रीजनिंग अनुभाग में सफलता के लिए महत्वपूर्ण विषयों का व्यापक कवरेज।
- विभिन्न कठिनाई स्तरों के अनुसार रणनीतिक रूप से तैयार किए गए अभ्यास।
- पिछले वर्षों की परीक्षाओं से 6500 प्रश्न सोच-समझकर संकलित किए गए हैं।
- सभी प्रश्नों का विस्तृत विवरण।
- एसएससी परीक्षाओं में आने वाले सभी प्रकार के प्रश्नों को शामिल किया गया है।

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## SSC रीजनिंग 6500+ TCS MCQs टॉपिक वाइज

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**डा. आर. एस. अग्रवाल**

### पुस्तक के विषय में

पुस्तक को संकलित करने का हमारा दृष्टिकोण व्यवस्थित और संरचित रहा है। इसे सुनिश्चित करने के लिए इसमें सीजीएल (CGL), सीपीओ (CPO), सीएचएसएल (CHSL), जीडी (GD) और एमटीएस (MT) जैसी एसएससी परीक्षाओं में आने वाले सभी आवश्यक अध्यायों और प्रश्न के प्रकारों को शामिल किया गया है। स्पष्ट अवलोकन प्रदान करने के लिए, हमने पुस्तक को 24 अध्यायों में विभाजित किया है, प्रत्येक अध्याय गणित के एक विशिष्ट टॉपिक पर केंद्रित है। यह पुस्तक उन अध्यायों की विस्तृत श्रृंखला को शामिल करती है जो एसएससी गणित खंड में सफलता के लिए महत्वपूर्ण हैं। प्रत्येक अध्याय एक विशिष्ट टॉपिक पर केंद्रित है तथा अवधारणाओं को समझने और उनमें महारत हासिल करने के लिए चरणबद्ध दृष्टिकोण प्रदान करता है। प्रत्येक अध्याय की शुरुआत मूल सिद्धांतों की स्पष्ट व्याख्याओं के साथ होती है, जिसके बाद आपकी समझ को बढ़ाने के लिए उदाहरण दिए गए हैं।

### प्रमुख विशेषताएँ

- एसएससी के गणित खंड में सफलता के लिए महत्वपूर्ण विषयों का व्यापक कवरेज।
- अवधारणाओं को समझने और उनमें महारथ प्राप्त करने के लिए चरणबद्ध दृष्टिकोण।
- महत्वपूर्ण सिद्धांतों के उदाहरणात्मक उदाहरण.

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## Objective Arithmetic(SSC and Railway Exam Special) (Bengali Edition)

Dr. R S Aggarwal

**ISBN: 9789355014221 I Price: ₹ 525 | Pages: 548 I Size: 8.25" X 10.5"**

### About the Book

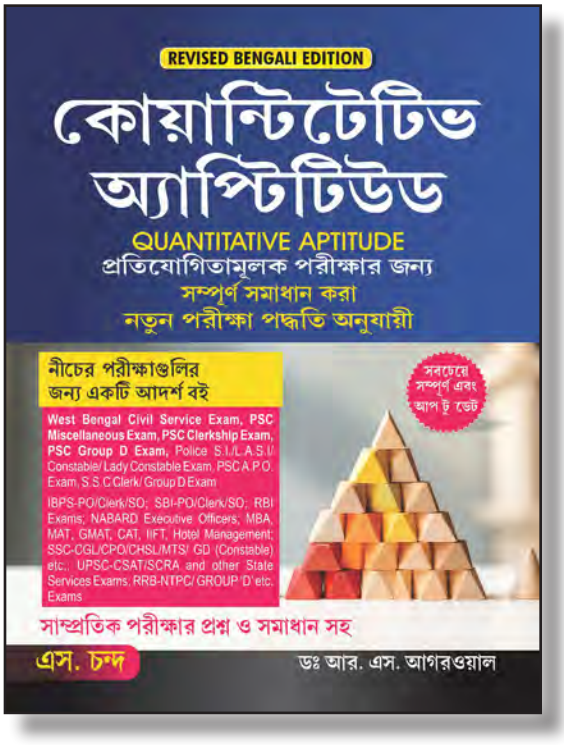
This revised edition of *Objective Arithmetic* retains the novelty of the previous edition and continues to be extremely reader-friendly and practice-oriented. It brings to the readers additional questions from various competitive examinations like CDS, SSC-CGL, IBPS-CWE Bank PO, RBI Grade B, etc.

### Key Features

(a) An additional section with new questions from recent examinations.

(b) These questions are based on the latest trend and pattern of examinations.

(c) Complete solutions added to facilitate better understanding of the problems.




## Quantitative Aptitudefor Competitive Examinations (Revised Bengali Edition)

Revised Edition

Dr. R S Aggarwal

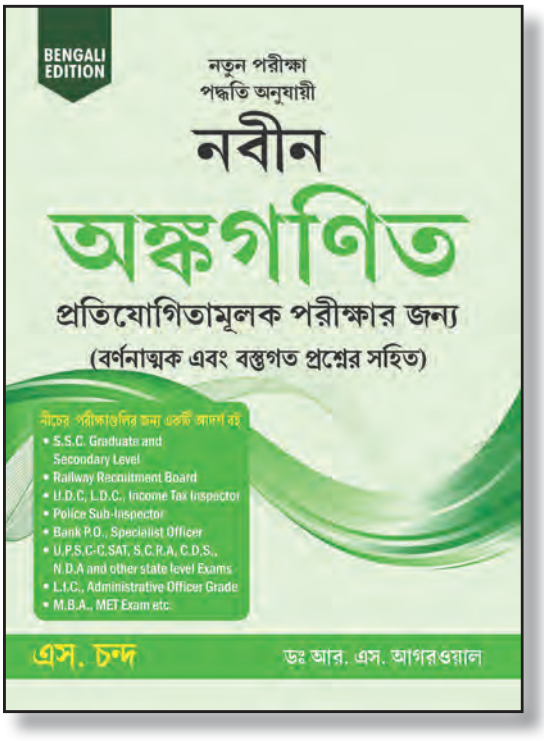
**ISBN: 9789358709940 I Price: ₹ 650 I Pages:796 Size: 8" X 10.5"**

### About the Book

This is **Bengali** version of one of the most popular book by Dr R S Aggarwal Quantitative Aptitude. Quantitative Aptitude has come to acquire a special place of respect and acceptance among students and aspirants appearing for a wide gamut of competitive exams. As a front-runner and a first choice, the book has solidly stood by the students and helped them fulfil their dreams by providing a strong understanding of the subject and even more rigorous practice of it. Now, more than a quarter of a century later, with the ever changing environment of examinations, the book too reinvents itself while being resolute to its core concept of providing the best content with easily understandable solutions. With the enhancements to an already robust book, we fulfil a long-standing demand of the readers to bring out a revised and updated edition, and sincerely hope they benefit immensely from it.

### Salient features

1. A whole lot of objective-type questions, with their solutions by short-cut methods.
2. A full coverage of every topic via fully solved examples given at the beginning of each chapter.
3. A separate exercise on Data-Sufficiency-Type Questions given in each topic, along with explanatory solutions.
4. A more enriched section on Data Interpretation.
5. Questions from latest years' examination papers (on memory basis) have been incorporated.




## Naveen Ankganit Pratiyogi Parikshaon Ke Liye (Bengali Edition)

### नवीन अंकगणित प्रतियोगी परीक्षाओं के लिए

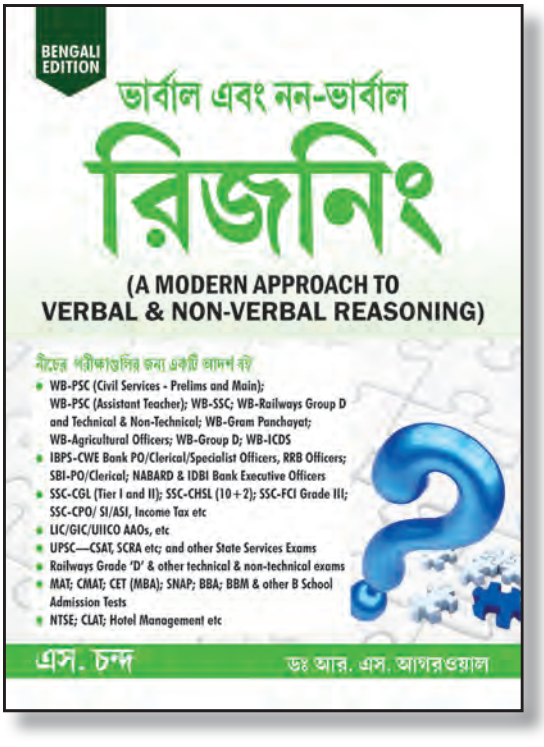
Dr. R S Aggarwal

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**Useful for: Bank PO, SBI-PO, IBPS, RBI Exams etc.**

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## Modern Approach to Verbal & Non-Verbal Reasoning (Bengali Edition)

Dr. R S Aggarwal

### About the Book

This is Bengali version of one of the most popular books by Dr R S Aggarwal Verbal & Non-Verbal Reasoning. The book carefully guides the candidates through faster, shorter, and intelligent paths to take up the study of both the parts of the book, namely, Verbal, and Non-Verbal Reasoning. **Comprehensive**: The book is more comprehensive than ever before, with more than 4000 questions supported with answers and solutions—a hallmark of the book. **Easy to follow:** Chapters begin with easy-to-grasp theory. They are followed by sets of a wide variety of questions for practice. **Latest & Updated:** The book captures the latest examination patterns as well as questions for practice.

**Useful for: Bank PO, SBI-PO, IBPS, RBI Exams etc.**

**ISBN: 9789355013156 | Price: ₹ 650 | Pages: 1068 | Size: 8." X 10.5" (Paperback)**




## A Modern Approach to Verbal & Non-Verbal Reasoning

## (Marathi Edition)

Dr. R S Aggarwal

**ISBN: 9789358705195**

**Price: ₹ 725**

**Pages: 872**

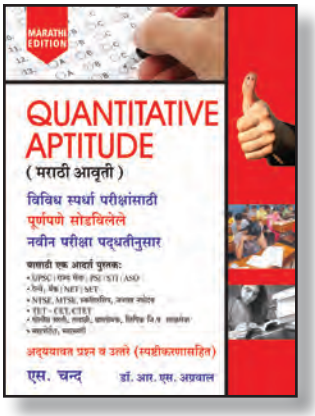
**Revised Edition**

### About the Book

This revised edition of *A Modern Approach to Verbal and Non-Verbal Reasoning*, while retaining the key strengths and structure of the previous edition, brings to the readers additional questions from various competitive examinations as per the latest pattern and trends.Recent questions (based on memory) and their answers/solutions from different competitive examinations like SSC, RRB, IBPS, AFCAT, SBI, RBI Grade B, etc. has been added.

### Key Features

- The book carefully guides the candidates through faster, shorter and intelligent paths to take up the study of both parts of the book, namely, Verbal and Non-Verbal.
- By suitably arranging the questions based on the latest examination patterns.
- By providing a large number of questions for practice, with solutions that can teach one the right approach towards solving them.
- By providing solved examples with full explanations to bring out the essence of each topic.
- Each chapter will help you understand how to solve the questions in an easy way as we are providing video solutions (Scan QR code).




## Quantitative Aptitude for Competitive Examinations (Marathi Edition)

Dr. R S Aggarwal

**ISBN: 9789352837083**

**Price: ₹ 499**

**Pages: 1024**

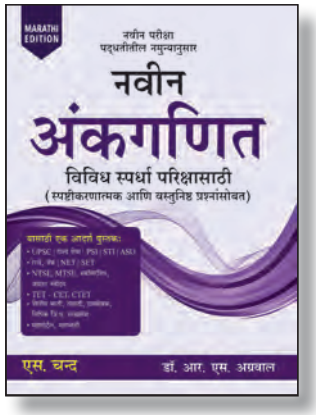
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### About the Book

This is Marathi version of one of the most popular book by Dr R S Aggarwal Quantitative Aptitude. Ever since its release in 1989, Quantitative Aptitude has come to acquire a special place of respect and acceptance among students and aspirants appearing for a wide gamut of competitive exams. As a front-runner and a first choice, the book has solidly stood by the students and helped them fulfil their dreams by providing a strong understanding of the subject and even more rigorous practice of it. Now, more than a quarter of a century later, with the ever changing environment of examinations, the book too reinvents itself while being resolute to its core concept of providing the best content with easily understandable solutions. With the enhancements to an already robust book, we fulfil a long-standing demand of the readers to bring out a revised and updated edition, and sincerely hope they benefit immensely from it.

### Salient features

1. A whole lot of objective-type questions, with their solutions by short-cut methods.
2. A full coverage of every topic via fully solved examples given at the beginning of each chapter.
3. A separate exercise on Data-Sufficiency-Type Questions given in each topic, along with explanatory solutions.
4. A more enriched section on Data Interpretation.
5. Questions from latest years' examination papers (on memory basis) have been incorporated.




## (Marathi Edition) नवीन अंकगणित प्रतियोगी परीक्षाओं के लिए

Dr. R S Aggarwal

**ISBN: 9789352838240**

**Price: ₹ 550**

**Pages: 732**

**Size: 8.25" X 10.55"**

### पुस्तक के विषय में

विभिन्न प्रतियोगी परीक्षाओं में सम्मिलित हो रहे अभ्यर्थियों के लिए यह पुस्तक 'नवीन अंकगणित' अत्यन्त लोकप्रिय एवं अच्छी पुस्तकों में से एक है। चूँकि इन परीक्षाओं के पाठ्यक्रमों में काफी बदलाव हुए हैं, जैसे अग्रिम गणित (एडवांस मैथमेटिक्स) को शामिल करना, इसलिए इस पुस्तक के संशोधित संस्करण की आवश्यकता महसूस की गयी। परीक्षाओं के नवीनतम पैटर्न को ध्यान में रखते हुए इस पुस्तक को संशोधित किया गया है।

### प्रमुख विशेषताएँ

- यह संस्करण नवीनतम पाठ्यक्रम एवं पैटर्न पर आधारित है।
- इसमें 3800 से अधिक हल प्रश्न दिये गये हैं।
- विभिन्न अवधारणाओं को लगभग 6000 उदाहरणों/प्रश्नों द्वारा सरलता से समझाया गया है।
- इसमें चार नये अध्याय-भिन्न, आयत-चित्र, निर्देशांक ज्यामिति, प्रिज्म और पिरामिड जोड़े गये हैं।
- एक अलग खण्ड में अतिरिक्त प्रश्नों का संग्रह (उत्तर सहित) दिया गया है।




## Quantitative Aptitude for Competitive Examinations Fully Solved and Updated (Telugu Edition)

Dr. R S Aggarwal

**ISBN: 9789355012555**
**Price: ₹ 699**
**Pages: 1016**
**Size: 8.25" X 10.55"**

### About the Book

This is Telugu version of one of the most popular book by Dr R S Aggarwal Quantitative Aptitude. Ever since its release in 1989, Quantitative Aptitude has come to acquire a special place of respect and acceptance among students and aspirants appearing for a wide gamut of competitive exams. As a front-runner and a first choice, the book has solidly stood by the students and helped them fulfil their dreams by providing a strong understanding of the subject and even more rigorous practice of it. Now, more than a quarter of a century later, with the ever changing environment of examinations, the book too reinvents itself while being resolute to its core concept of providing the best content with easily understandable solutions. With the enhancements to an already robust book, we fulfil a long-standing demand of the readers to bring out a revised and updated edition, and sincerely hope they benefit immensely from it.

### Salient features

1. A whole lot of objective-type questions, with their solutions by short-cut methods.
2. A full coverage of every topic via fully solved examples given at the beginning of each chapter.
3. A separate exercise on Data-Sufficiency-Type Questions given in each topic, along with explanatory solutions.
4. A more enriched section on Data Interpretation.
5. Questions from latest years' examination papers (on memory basis) with solution have been incorporated.

• 1000+ Solved Examples • 4000+ Practice Questions.



**Forthcoming**

## Naveen Ankganit Pratiyogi Parikshaon Ke Liye (Telugu Edition)

नवीन अंकगणित
प्रतियोगी परीक्षाओं के लिए

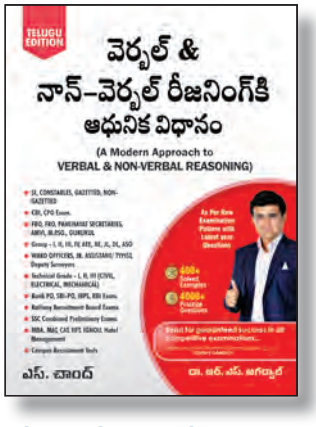
Dr. R S Aggarwal

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### Salient features

8. Bank PO, SBI-PO, IBPS, RBI Exams
9. MBA, MAT, CMAT, GMAT, CAT, IIFT, IGNOU
10. SSC Combined Preliminary Exams, Hotel Management
11. Sub-Inspectors of Police, CBI, CPO Exams
12. UPSC-CSAT, SCRA and other State Services Exams
13. Railway Recruitment Board Exams
14. Campus Recruitment Tests




## A Modern Approach to Verbal & Non-Verbal Reasoning (Telugu Edition)

Dr. R S Aggarwal

**ISBN: 9789355015129**
**Price: ₹ 750**
**Pages: 900**
**Size: 8" X 10.5"**

### About the Book

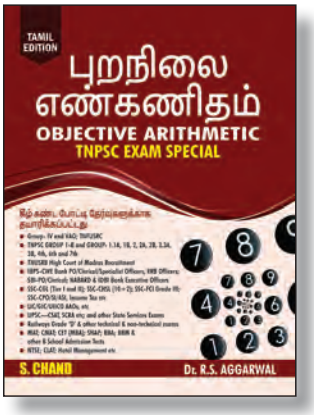
This is Telugu version of one of the most popular book by Dr R S Aggarwal Verbal and Non Verbal Reasoning. The book carefully guides the candidates through faster, shorter and intelligent paths to take up the study of both the parts of the book, namely, Verbal, and Non-Verbal:

(a) By suitably arranging the questions based on the latest examination patterns.
(b) By providing a huge number of questions for practice, with solutions that can teach one the right approach towards solving them.
(c) By providing solved examples with full explanation to bring out the essence of each topic.

This comprehensive text will surely be an invaluable resource for the readers and help them master the subject.

### Salient features

(i) Coverage of all types of questions based on the latest pattern in a classified, well arranged and graded manner.
(ii) A whole lot of questions for practice, with solutions that can teach one the right approach to deal with similar questions that one may come across elsewhere.
(iii) Fully solved examples to explain the essence of each topic.




## Objective Arithmetic (Tamil Edition)

Dr. R S Aggarwal

**ISBN: 9789355010391**
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**Pages: 616**
**Size: 8.25" X 10.5"**

### Key Features

(a) An additional section with new questions from recent examinations.

(b) These questions are based on the latest trend and pattern of examinations.

(c) Complete solutions added to facilitate better understanding of the problems.




## A Modern Approach to Verbal & Non-Verbal Reasoning (Tamil Edition)

Dr. R S Aggarwal

**ISBN: 9789358700176**
**Price: ₹ 725**
**Pages: 744**

### Salient features

(i) Coverage of all types of questions based on the latest pattern in a classified, well arranged and graded manner.

(ii) A whole lot of questions for practice, with solutions that can teach one the right approach to deal with similar questions that one may come across elsewhere.

(iii) Fully solved examples to explain the essence of each topic.




## Quantitative Aptitude for Competitive Examinations (Tamil Edition)

Dr. R S Aggarwal

**ISBN: 9789355012401**
**Price: ₹ 599**
**Pages: 1076**
**Size: 8 " X 10.5"**

### Key Features

(a) Comprehensive: The book is more comprehensive than ever before with more than 5500 questions (supported with answers and solutions—a hallmark of Quantitative Aptitude).

(b) Easy to follow: Chapters begin with easy-to-grasp theory complemented by formulas and solved examples. They are followed by a wide-ranging number of questions for practice.

(c) Latest & Updated: The book captures the latest examination patterns as well as questions for practice.




## Quantitative Aptitude for Competitive Examinations (Kannada Edition)

Dr. R S Aggarwal

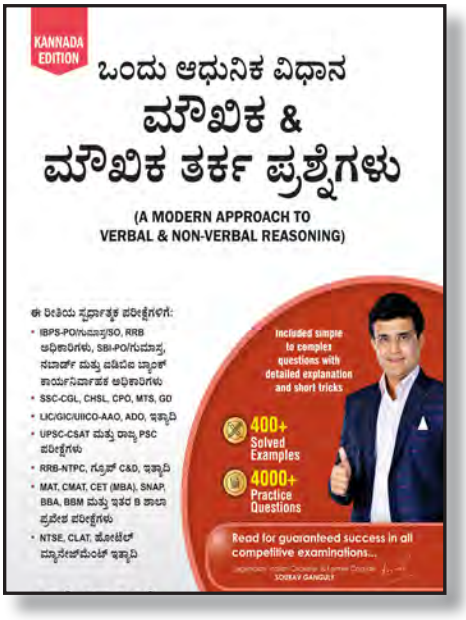
### About the Book

This is Kannada version of one of the most popular book by Dr R S Aggarwal Quantitative Aptitude. Ever since its release in 1989, Quantitative Aptitude has come to acquire a special place of respect and acceptance among students and aspirants appearing for a wide gamut of competitive exams. As a front-runner and a first choice, the book has solidly stood by the students and helped them fulfil their dreams by providing a strong understanding of the subject and even more rigorous practice of it. Now, more than a quarter of a century later, with the ever changing environment of examinations, the book too reinvents itself while being resolute to its core concept of providing the best content with easily understandable solutions. With the enhancements to an already robust book, we fulfil a long-standing demand of the readers to bring out a revised and updated edition, and sincerely hope they benefit immensely from it.

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**ISBN:** 9789352837090 **| Price: ₹ 599 | Pages: 960 | Size: 8.25" X 10.55" (Paperback)**




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Dr. R S Aggarwal

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This is Kannada version of one of the most popular book by Dr R S Aggarwal Verbal and Non Verbal Reasoning. The book carefully guides the candidates through faster, shorter and intelligent paths to take up the study of both the parts of the book, namely, Verbal, and Non-Verbal:

By suitably arranging the questions based on the latest examination patterns.

By providing a huge number of questions for practice, with solutions that can teach one the right approach towards solving them.

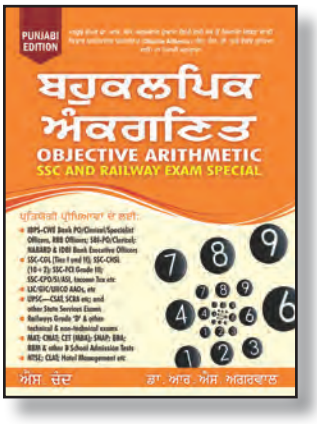
By providing solved examples with full explanation to bring out the essence of each topic.

This comprehensive text will surely be an invaluable resource for the readers and help them master the subject.

### Key Features

1. Coverage of all types of questions based on the latest pattern in a classified, well-arranged, and graded manner.
2. A whole lot of questions for practice, with solutions that can teach one the right approach to deal with similar questions that one may come across elsewhere.
3. Fully solved examples to explain the essence of each topic.

**ISBN:** 9789355016874 **| Price: ₹ 750 | Pages: 758 | Size: 8.25" X 10.55" (Paperback)**




## Objective Arithmetic (SSC and Railway Exam Special)

## (Punjabi Edition)

Dr. R S Aggarwal

**ISBN: 9789352837380**
**Price: ₹ 650**
**Pages: 536**
**Size: 8.25 " X 10.5"**

### About the Book

This revised edition of *Objective Arithmetic* retains the novelty of the previous edition and continues to be extremely reader-friendly and practice-oriented. It brings to the readers additional questions from various competitive examinations like CDS, SSC-CGL, IBPS-CWE Bank PO, RBI Grade B, etc.

### Key Features

(a) An additional section with new questions from recent examinations.

(b) These questions are based on the latest trend and pattern of examinations.

(c) Complete solutions added to facilitate better understanding of the problems.




## A Modern Approach to Verbal & NonVerbal Reasoning

## (Punjabi Edition)

Dr. R S Aggarwal

**ISBN: 9789358705744**
**Price: ₹ 749**
**Pages: 720**

### About the Book

This is a Punjabi version of one of the most popular books by Dr R S Aggarwal Verbal and Non Verbal Reasoning. The book carefully guides the candidates through faster, shorter, and more intelligent paths to take up the study of both the parts of the book, namely, Verbal, and NonVerbal: By suitably arranging the questions based on the latest examination patterns. By providing a huge number of questions for practice, with solutions that can teach one the right approach to solving them. By providing solved examples with full explanations to bring out the essence of each topic.
This comprehensive text will surely be an invaluable resource for the readers and help them master the subject.

### Key Features

* Latest pattern questions classified, arranged, and graded comprehensively
* Practice questions with instructive solutions for effective learning.
* Fully solved examples to explain the essence of each topic




## Quantitative Aptitude for Competitive Examinations

## (Punjabi Edition)

Dr. R S Aggarwal

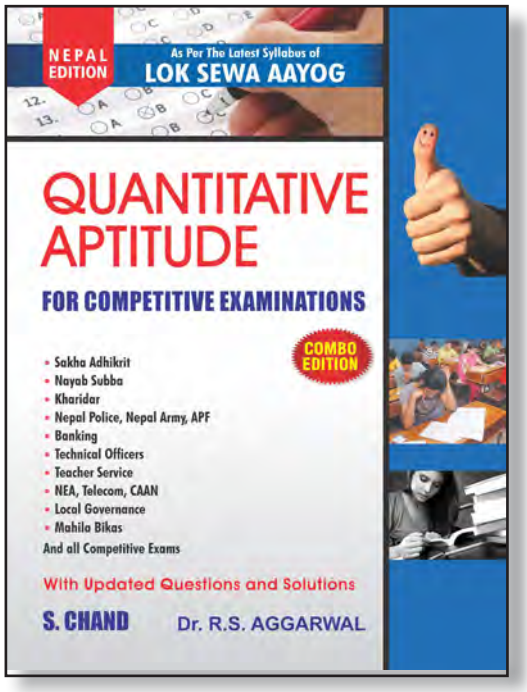
**ISBN: 9789358704778**
**Price: ₹ 699**
**Pages: 640**

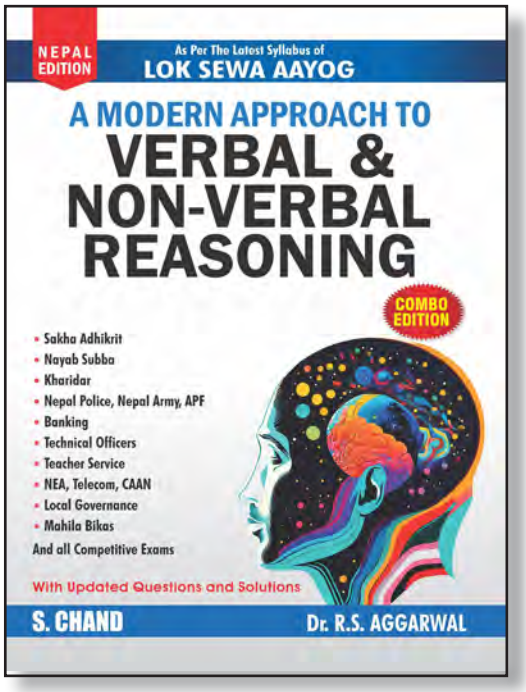
### About the Book

This Punjabi version of Dr. R.S. Aggarwal's renowned book "Quantitative Aptitude" has been a cherished resource since its 1989 debut. It remains a trusted companion for students preparing for diverse competitive exams. Over the years, it has adapted to evolving exam patterns, offering comprehensive subject understanding and rigorous practice. Now, after more than 25 years, this revised edition addresses readers' demands for updated content, reaffirming its commitment to providing easily understandable solutions for aspirants to achieve their dreams.

### Key Features

* Abundance of objectivetype questions with timesaving solution shortcuts.
* Detailed coverage via fully solved examples at the start of each chapter.
* Dedicated exercises for DataSufficiencyType Questions with explanations.
* Enhanced section on Data Interpretation.
* Inclusion of recent exam questions from memorybased sources.




COMBO EDITION

**ISBN: 9789358702293 | COMBO Price: ₹ 1099 | Pages: 996**

# Quantitative Aptitude + Verbal & Non-Verbal Reasoning (Set of 2 Books) For All Competitive Exams - Nepal Edition

Dr. R S Aggarwal

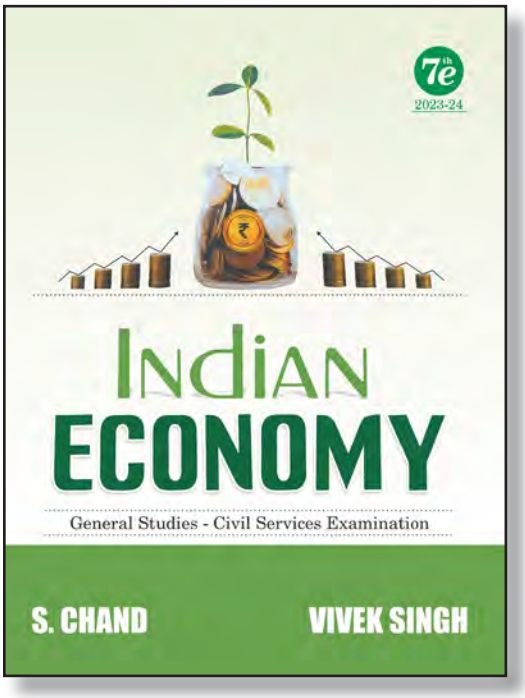
## About the Book

Now-a-days, success in every competitive examination, depends much on the candidate's performance in the

Quantitative and Reasoning section. So, a much faster, shorter and intelligent approach to it is the need of the day. This combo edition for Nepal serves the purpose. The salient features of these books are:

- Comprehensive coverage of the latest question patterns, organized and graded for easy understanding.
- Abundant practice questions with instructive solutions for mastering similar problem-solving approaches.
- Includes PYQs of Reasoning section from 2015-2021.
- Detailed, fully solved examples to elucidate each topic's core concepts.

These books have objective-type questions that have been meticulously curated, they will serve as an essential tool for you to practice and test one's knowledge, ultimately leading to a higher level of proficiency.




## Indian Economy 7th Edition UPSC Services Examinations | General Studies

Vivek Singh

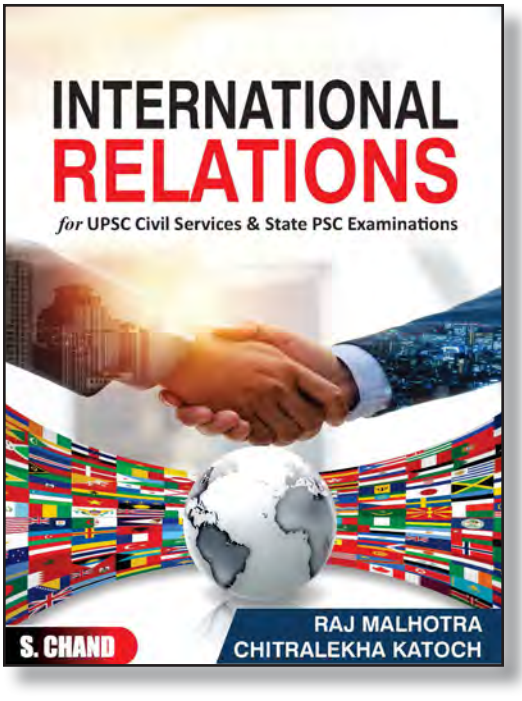
### About the Book

This comprehensive guide is an essential resource for UPSC Civil Services Examination candidates, focusing on GS Paper III's economic development section for both preliminary and main stages. It provides a deep understanding by blending foundational concepts with contemporary issues, using visual aids, real-world examples, and updated economic data. It includes past UPSC questions, offers economic term references, aligns with the syllabus, and covers the latest economic developments like the 2023-24 Budget and 2022-23 Economic Survey. It's also useful for State PCS, RBI, NABARD, and SEBI exams, catering to diverse competitive examination needs.

### Key Features

1. Covers both prelims and mains sections of GS Paper III (Economic Development).
2. Includes Budget 2023-24 and Economic Survey 2022-23.
3. Includes static and conceptual part, as well as fully updated current issues.
4. Lays emphasis on conceptual clarity, supported with diagrams, graphs, flowcharts, and a lot of examples.
5. Thoroughly updated with economic data and schemes.
6. Includes previous years' UPSC Prelims and mains questions.
7. Includes economic terms at the end of the book for easy reference.
8. UPSC (CSE) Syllabus has been mapped with relevant chapters in the book.
9. Important keywords have been highlighted in bold.
10. The book covers State PCS exams and RBI, NABARD, and SEBI syllabus also."

**ISBN: 9789358700190 | Price: ₹ 699 | Pages: 476**




## International Relations for UPSC Civil Services & State PSC Examinations

Raj Malhotra & Chitralekha Katoch

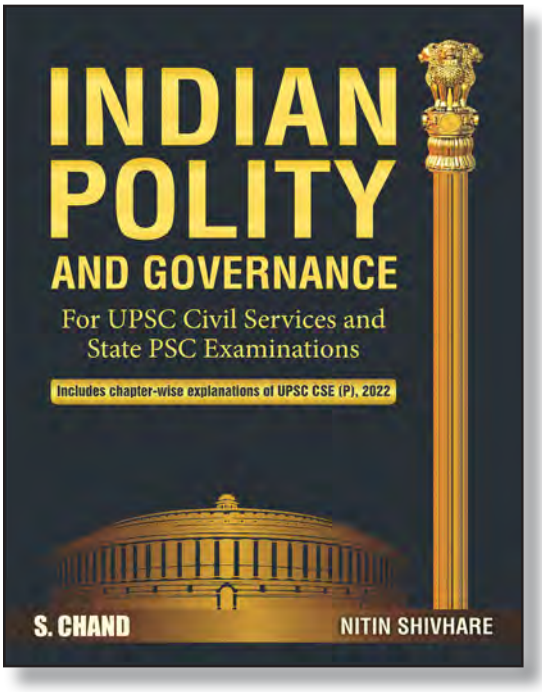
### About the Book

"International Relations: A Comprehensive Guide for Competitive Exams provides in-depth insights on key concepts, theories, and global affairs essential for UPSC aspirants, covering everything from historical foundations to contemporary challenges."

### Key Features

* Comprehensive coverage of the field of international relations.
* In-depth analysis of key topics.
* Up-to-date content reflecting the latest developments in international relations.
* Regional Focus to India's regional context.
* Multipolar perspective recognizing the shifting balance of power in the world.
* Emphasis on Global Governance.
* Exam-oriented approach with visual elements such as latest numbers and charts.

**ISBN: 9789355018724 I Price: ₹ 425 I Pages: 260**




## Indian Polity And Governance : For UPSC Civil Services and State PSC Examinations

Nitin Shivahare

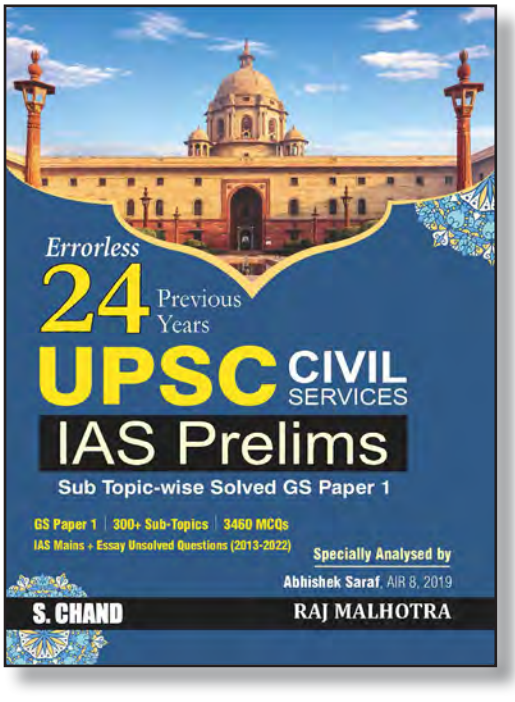
### About the Book

The book on Indian Polity & Governance for civil service exams recognizes the changing UPSC exam pattern and the challenges it presents to aspirants. It emphasizes the enduring importance of Indian Polity despite these challenges. The book delves into the dynamic world of Indian democracy, where theories and principles continually evolve. It strives to offer a comprehensive yet accessible understanding of the subject. The author's hope is that the book will engage and enlighten both students and curious readers.

### Key Features

* Updated Preliminary+Main examination PYQs till 2023
* Divided into 2 parts: Indian Polity and Governance.
* Dynamic coverage of important concepts
* Solved Previous Year Questions placed after important concepts.
* Revision charts for easy learning.
* Critical Analysis of Constitutional Acts and Amendments"

**ISBN: 9789355017086 I Price: ₹ 595 | Pages: 496**




## Errorless 24 Previous Years UPSC Civil Services IAS Prelims

Raj Malhotra

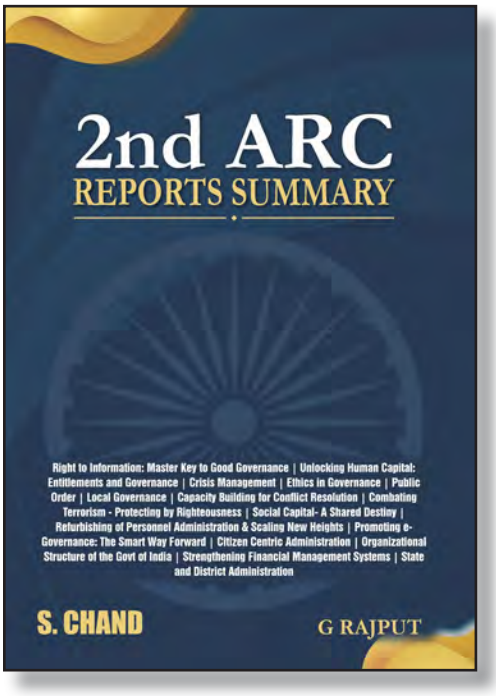
### About the Book

This UPSC CSE preparation book, with updated PYQs until 2023, offers a comprehensive approach, deep content understanding, and problem-solving skills, making it an invaluable resource for competitive exam success and effective last-minute revisions.

### Key Features

* Updated Preliminary+Main examination PYQs till 2023
* Comprehensive coverage of all topics in the syllabus.
* In-depth analysis of sub-topics.
* Exam-oriented approach with detailed explanations
* Perfect for last-minute revision"

**ISBN: 9789355018649 I Price: ₹ 599 I Pages: 440**




# 2nd ARC Reports Summary

G.Rajput

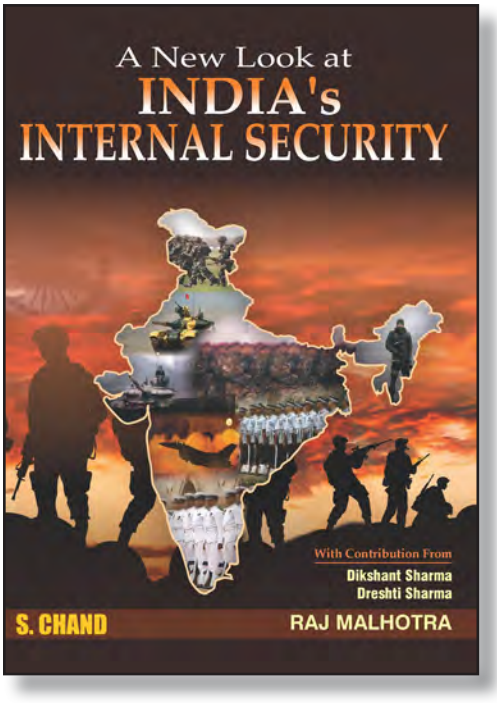
## About the Book

Public administration is the most important part of good governance and growth in society. Its complex impact on how governments, institutions, and public services work has been the focus of both scholarly research and real-world use for a long time. 2nd ARC Reports Summary will help you understand the recommendations in very easy and simple language. It will also help you from an opinion about the administrative changes required in India.

## Key Features

- Cover 15 vital recommendations for disaster management, RTI law, and MNREGA analysis.
- Essential for UPSC Civil service aspirants.
- A guide for "AAM ADMI" advocating an open, accountable, and inclusive government.
- For the new generation of " Political Class"

**ISBN: 9789358702132 I Price: ₹ 175 | Pages: 152**




# A New Look at India's Internal Security

Raj Malhotra

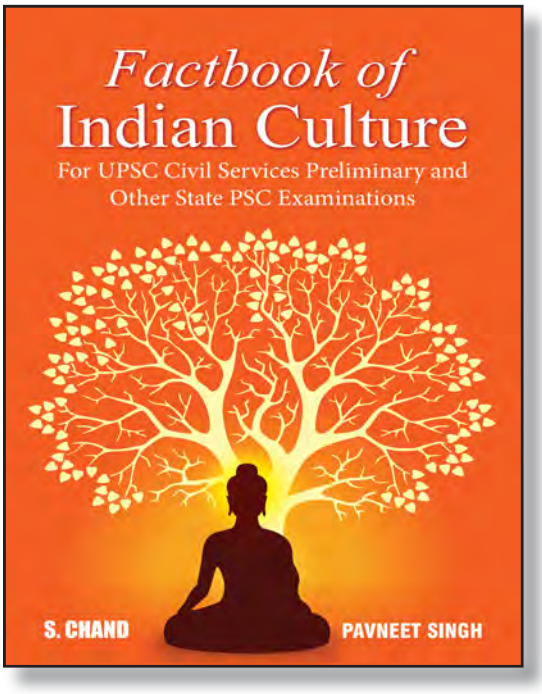
## About the Book

A New Look at India's Internal Security explores the dynamic landscape of modern security. This succinct yet thorough book, covers terrorism, left wing extremism, North East insurgency, external actors' roles, maritime and cyber security, money laundering, border challenges, organized crime, and security agencies. A vital resource for UPSC aspirants, policymakers and security professionals, it offers nuanced insights into the complex web of global security issues, all within a single, accessible volume.

## Key Features

- Comprehensive coverage of the field of Internal Security.
- In-depth analysis of key topics.
- Up-to-date content reflecting the latest developments.
- Regional focus on concepts.
- Exam-oriented approach with visual elements such as flow charts and images.

**ISBN: 9789358702378 I Price: ₹ 249 | Pages: 132**




## Factbook of Indian Culture : For UPSC Civil Services Preliminary and Other State PSC Examinations

Pavneet Singh

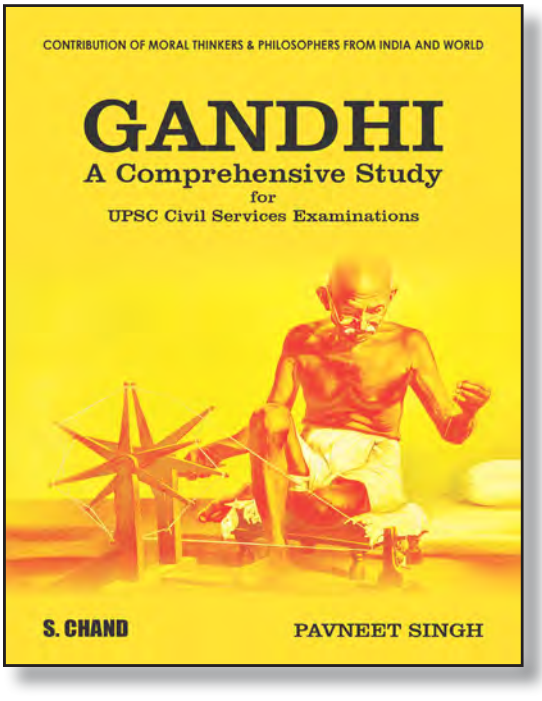
### About the Book

This book presents the topic of Indian culture in a succinct and exam-oriented manner. It will not only help students to know the elements that comprise culture, but also helps establish a connect among Indian ancient and medieval history and Indian culture. The book is designed in a very scientific manner and gives the complete history of India and culture of India at one place. The content presentation is in the form of questions and answers which shall enable them to grasp the content in the easiest possible manner.

### Key Features

- The cultural elements are given in a chronological manner which juxtapose historical epochs and events closely.
- All tangible and intangible elements of art and culture are covered.
- The question-answer format of treatment will help students study better

**ISBN: 9789355017031 | Price: ₹ 225 | Pages: 192 | Size: 6.75" X 9.5"**




## GANDHI: A Comprehensive Study for UPSC Civil Services Examinations

Pavneet Singh

### About the Book

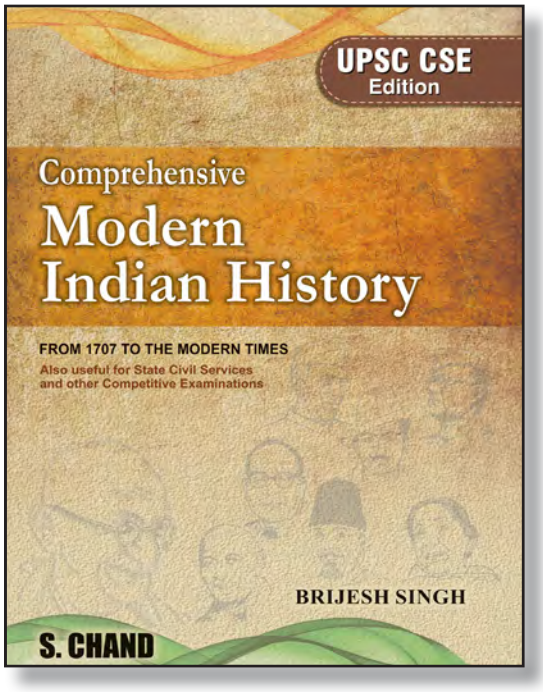
This year, we are celebrating the 150 birth anniversary of Gandhi and the 75 anniversary of India's independence. Every year, a few questions are asked directly from the life and ideology of Gandhi in preliminary and/or mains examinations. Apart from this, another set of questions are asked in GS papers which require the knowledge of Gandhi's contribution to the making of modern India - these are indirect questions or questions which touch the life and teachings of the great man. Moreover, Gandhi is a frequent subject of questions asked during the interviews after the prelims and mains, where candidates' capability of absorbing and applying Gandhian principles is often tested. Thus, virtually, at every stage of the UPSC exam, Gandhi's thoughts and actions are fertile grounds for questions. It is, therefore, imperative for the students to have a deep understanding about Gandhi, his thoughts and influence.

This book presents an original and provocative analysis of Gandhi's contributions and enlightens the readers with Gandhian views on ethics, education, religion, human nature and society. The book gives its readers a thorough understanding of Gandhian thoughts which focused on the ultimate welfare of humanity. Thus, apart from the civil services aspirants, the book will be useful for other examinations which test general studies and for anybody who is interested in learning about the Mahatma!

### Key Features

- An all-encompassing coverage of Gandhi's life, teachings, thoughts, and actions inside one book
- Structured presentation of the content under Historical, Governance, Ethical, Economic and Social perspectives
- A chapter (Chapter 20) containing questions which have been asked in the UPSC examination since 1979 including practice questions

**ISBN: 9789355015266 I Price: ₹ 199 | Pages: 180 | Size: 6.75" X 9.5"**




## Comprehensive Modern Indian History: From 1707 To The Modern Times (UPSC CSE Edition)

Brijesh Singh

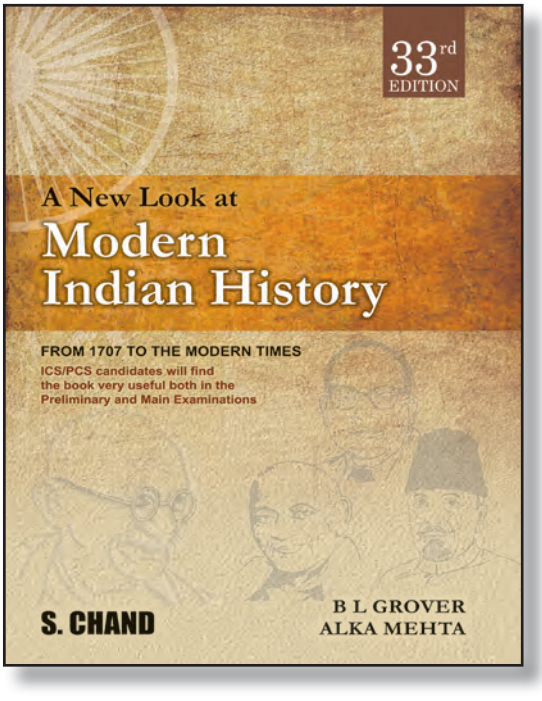
### About the Book

The book covers Modern Indian History part of the syllabus of the UPSC Civil Services Examination for General Studies - Preliminary as well as Mains Examinations. Text is accompanied with bullets, flowcharts, tables, graphs, maps, block diagrams, images, boxes, etc. to help in grasping the information in a systematic and scientific way. The book also covers questions on Modern Indian History part of the previous years, General Studies papers asked in the UPSC CSE and CDS examinations to help serious aspirants to assess the level of his/her preparation and understanding.

### Key Features

- The book, divided into four units and 43 Chapters, covers Modern Indian History from 1707 to post-independent India in a chronological order of the events.
- Chronological, systematic and analytical coverage of the topics of Modern Indian History part of the syllabus of UPSC Civil Services Examination for General Studies Preliminary as well as Mains Examinations, and various other competitive examinations.
- The facts presented in the book are substantiated with maps, flowcharts, tables, graphs, block diagrams, images and boxes to facilitate the reader in grasping the information in a systematic and scientific way.
- About 500 Chapter-end Multiple Choice Questions have been included in the book to provide rigorous practice to the students.

**ISBN: 9789355016577 I Price: ₹ 450 I Pages: 440 I Size: 6.75" X 9.5"**




## A New Look at Modern Indian History 33e

B L Grover & Alka Mehta

### About the Book

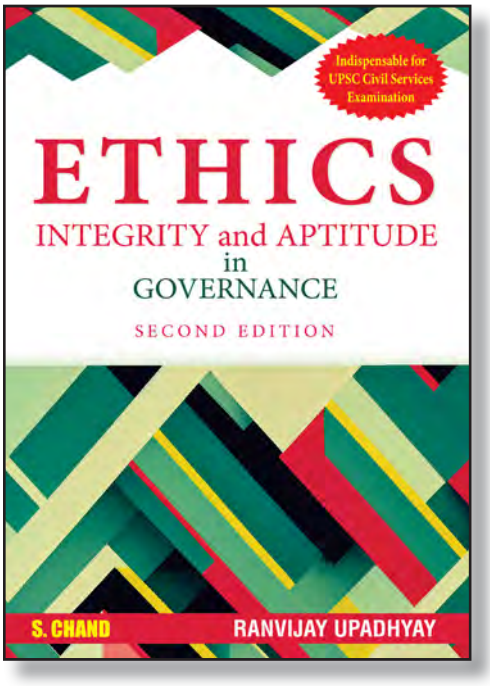
Modern Indian History, particularly the Indian National Movement, has been one of the essential parts of UPSC Civil Services Examination and other competitive examinations conducted by Union Public Service Commission and State Public Service Commission. This book is written in lucid language, covering the timeline from 1707 to the modern times. A special feature of the book is that it mentions not only factual data about various topics but also gives information about different interpretations put forward by Western and Indian historians, with an integrated analysis. This makes the book equally useful for undergraduate students of History.

### Key Features

- 29 appendices providing important information about Indian National movement and Freedom Struggle, Indian polity and economy, current events of national and international importance
- Select Opinions opinions of distinguished historians on the topic in question at the end of every chapter
- About 11 maps have been provided presenting easy visualisation of historical facts

**B L Grover,** Head of Department - History, Hans Raj College, University of Delhi.

**ISBN: 9789355016836 I Price: ₹ 675 I Pages: 616 I Size: 6.75" X 9.5"**



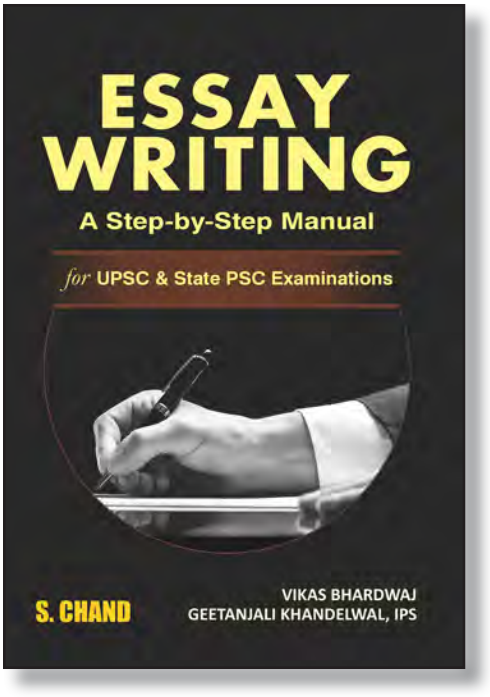

## Ethics Integrity And Aptitude in Governance : For UPSC Civil Services Examination

Ranvijay Upadhyay

### Key Features

- Comprehensive coverage of both theoretical aspects and real-world applications of ethical practices in governance.
- METRICES Approach to solve case studies with comprehensive illustrations.
- Logically sequenced into 7 sections that discuss ethics and human values, ethics and public service, probity in governance, challenges of effective governance, corporate governance, ethical issues in international relations and public funding, and emotional intelligence and aptitude.
- Chapter-end review exercise for practice with Previous Years Questions from 2018-2022

**ISBN: 9789355017352 | Price: ₹ 650 | Pages: 612 | Size: 6.75" X 9.5"**



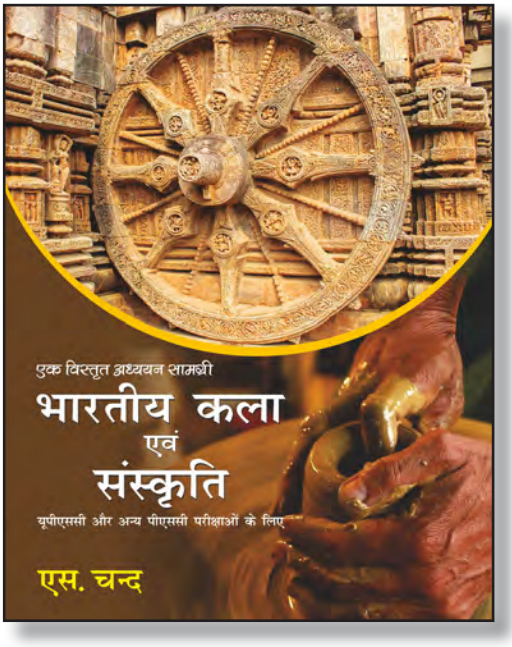

## Essay Writing: A Step-by-Step Manual for UPSC & State PSC Examinations

Vikas Bhardwaj Geetanjali Khandelwal, IPS

### Key Features

- Navigating Complexity: Addresses essay approaches, essay organization, critical points, referencing newspapars.
- Crafting Clarity: Enhances logical analysis for essay prep.
- Beyond Illusion: Insights from leaders, thinkers and bureaucrats, as well as their relevance in the present world.
- Structured Sequence: 6 Chapters + 4 Toolkits, Covers fundamentals, diverse essay types, integrated PYQs, and writing process.
- Mental Libraries: Builds reading, observation, practice skills for essays and more.
- Decades of PYQs: Updated book with PYQs from 1991-2023, categorized by domains.

**ISBN: 9789358700725 | Price: ₹ 325 | Pages: 248 | Size: 6.25" X 9.50"**




## भारतीय कला एवं संस्कृति

S.Chand's Expert

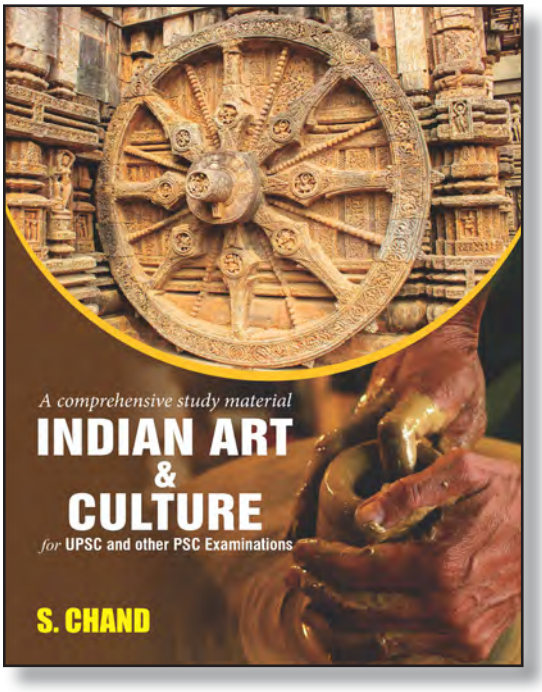
### पुस्तक के विषय में

पुस्तक भारत की विरासत और ज्ञान को दर्शाती है। यह पुस्तक विभिन्न प्रतियोगी परीक्षाओं की तैयारी करने वाले उम्मीदवारों के लिए एक सर्वव्यापी संसाधन प्रदान करने के लिए समर्पित है। इस व्यापक गाइड को सावधनीपूर्वक आठ इकाइयों में व्यवस्थित किया गया है, जिनमें से प्रत्येक भारत के सांस्कृतिक और बौद्धिक परिदृश्य के विशिष्ट पहलुओं की खोज करती है।

### प्रमुख विशेषतायें

* पुस्तक यूपीएससी सीएसई का संपूर्ण पाठ्यक्रम शामिल है।
* भारतीय संस्कृति, विरासत और ज्ञान के विविध् पहलुओं को शामिल किया गया है।
* आठ इकाइयाँ व्यवस्थित रूप से भारत के सांस्कृतिक और बौद्धिक परिदृश्य के विभिन्न पहलुओं की व्याख्या करती हैं।
* भारतीय धर्मों और धर्मिक सुधार आंदोलनों का गहन कवरेज।
* भारत रत्न, पद्म पुरस्कार, कानूनी प्रावधन और विरासत संरक्षण शामिल हैं।
* भारतीय विरासत की समग्र समझ के लिए ऐतिहासिक स्थल, मंदिर, आश्रम, किले आदि शामिल हैं।

**ISBN: 9789358702200 I Price: ₹ 675 | Pages:552**




## Indian Art & Culture

S.Chand's Expert

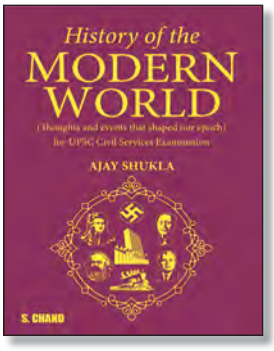
### About the Book

Indian Art and Culture serves as a testament to the rich tapestry of Indian culture, heritage, and knowledge that it seeks to encapsulate. This book is dedicated to provide an all-encompassing resource for aspirants preparing for various competitive examinations. This extensive guide is meticulously organized into eight units, each dedicated to exploring distinct facets of India's cultural and intellectual landscape.

### Key Features

- Includes full syllabus of UPSC CSE.
- Covers diverse aspects of Indian culture, heritage, and knowledge.
- Eight units systematically explore different facets of India's cultural and intellectual landscape.
- In-depth coverage of Indian religions and religious reform movements.
- Covers Bharat Ratna, Padma Awards, legal provisions, and heritage preservation.
- Features historical sites, temples, ashrams, forts, and more for a holistic understanding of Indian heritage.

**ISBN: 9789358702361 I Price: ₹ 675 | Pages: 536**



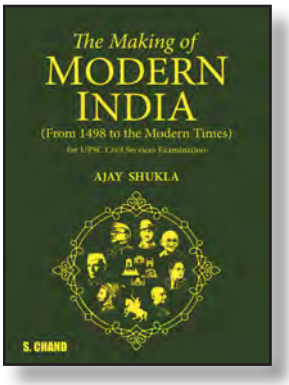

## History of the Modern World For UPSC Civil Services Examinations

Ajay Shukla

### Key Features

- Lucid presentation and free-flowing language, including 18 maps.
- Narration of a large number of lesser known and little-talked about, but important — and interesting facts which played a critical role in shaping World History.
- Objective analysis of events, and thoughts that led to those events, from a modern perspective in the political, social, and economic context.
- Philosophical discussion on Ideologies that led to major historical events.

**ISBN: 9789355017239 | Price: ₹ 495 | Pages: 408 | Size: 6.75" X 9.5"**




## The Making of Modern India From 1498 to the Modern Times

Ajay Shukla

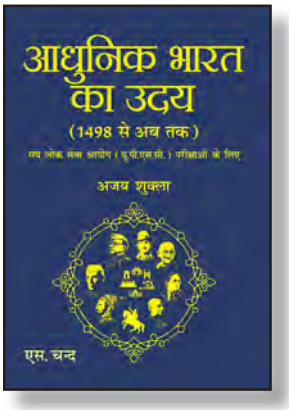
### About the Book

While the book attempts to give a historical account of events that have shaped India since the advent of the Portuguese in 1498, it is not merely a chronicle of the past events. The author has taken care not only to cover the events of historical significance which happened in the Indian subcontinent, but has also made an attempt to reassess the burgeoning body of newer evidence to throw fresh light on some of these. In the process, at times, a lesser-known fact has also come to the surface - many of these, according to the author, deserve a more detailed - and at times a more nuanced, and often an altogether different - exposition to understand the low of events in a more holistic manner.

### Key Features

- Lucid presentation and free-flowing language, including 10 maps.
- Narration of a large number of lesser known and little talked about, but important and interesting facts which played a critical role in shaping Indian history.
- Objective analysis of events, and thoughts that led to those events, from a modern perspective in the political, social, and economic context.
- Philosophical discussion on religious issues.

**ISBN: 9789355015044 Price: ₹ 495 Pages: 456 Size: 6.75" X 9.5"**




## आधुनिक भारत का उदय ( 1498 से अब तक )

### संघ लोक सेवा आयोग परीक्षाओं के लिए

### अजय शुक्ला

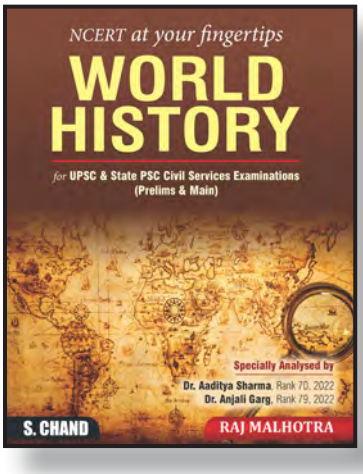
### पुस्तक के विषय में

यह पुस्तक 1498 में पुर्तगालियों के आगमन के बाद से भारत को आकार देने वाली घटनाओं का ऐतिहासिक विवरण देने का प्रयास करती है, लेकिन यह केवल अतीत की घटनाओं का विवरण मात्र नहीं है। लेखक ने न केवल भारतीय उपमहाद्वीप में घटित ऐतिहासिक महत्व की घटनाओं को कवर करने का ध्यान रखा है, बल्कि इनमें से कुछ पर नई रोशनी डालने के लिए नए साक्ष्यों के बढ़ते समूह का पुनर्मूल्यांकन करने का भी प्रयास किया है। इस प्रक्रिया में, कभी-कभी, कुछ कम-ज्ञात तथ्य भी सामने आए हैं - लेखक के अनुसार, इनमें से कई घटनाओं के समग्र प्रवाह को समझने के लिए अधिक विस्तृत - और कभी-कभी अधिक सूक्ष्म, और अक्सर पूरी तरह से अलग - व्याख्या की आवश्यकता होती है। इस प्रकार, यह पुस्तक अपने पाठकों को नए विचारों और ज्ञान की खोज करने के लिए प्रेरित करेगी और उन्हें भारतीय इतिहास में गहराई से जानने के लिए प्रेरित करेगी!

### मुख्य तथ्य

- स्पष्ट प्रस्तुति और मुक्त-प्रवाह वाली भाषा।
- 9 मानचित्र शामिल हैं।
- बड़ी संख्या में कम-ज्ञात और कम-चर्चित, लेकिन महत्वपूर्ण तथ्यों का वर्णन, जिन्होंने भारतीय इतिहास को आकार देने में महत्वपूर्ण भूमिका निभाई।
- राजनीतिक, सामाजिक और आर्थिक संदर्भ में आधुनिक दृष्टिकोण से, घटनाओं और उन घटनाओं को जन्म देने वाले विचारों का वस्तुनिष्ठ विश्लेषण।
- धार्मिक मुद्दों पर दार्शनिक चर्चा।

**ISBN: 9789355018748 I Price: ₹ 249 I Pages: 352**



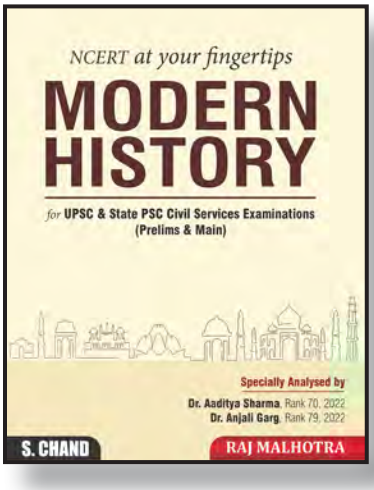

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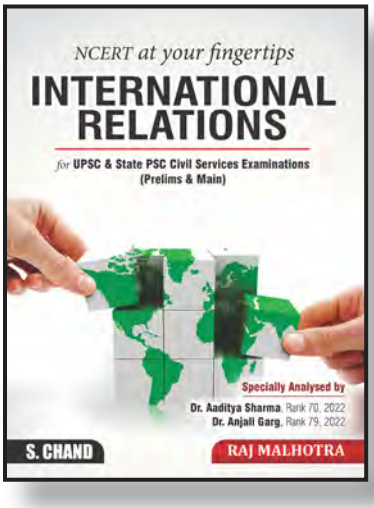

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* Comprehensive guide for UPSC CSE
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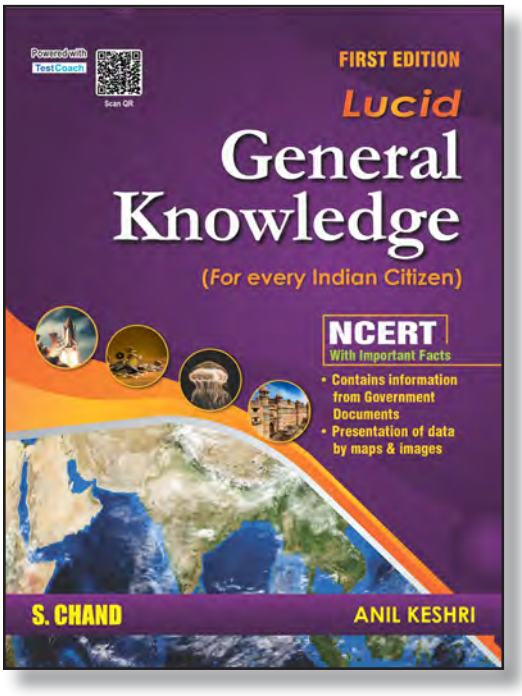

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## Lucid General Knowledge 2024 : For every Indian Citizen | NCERT With Important Facts | Maps & Images

Anil Keshri

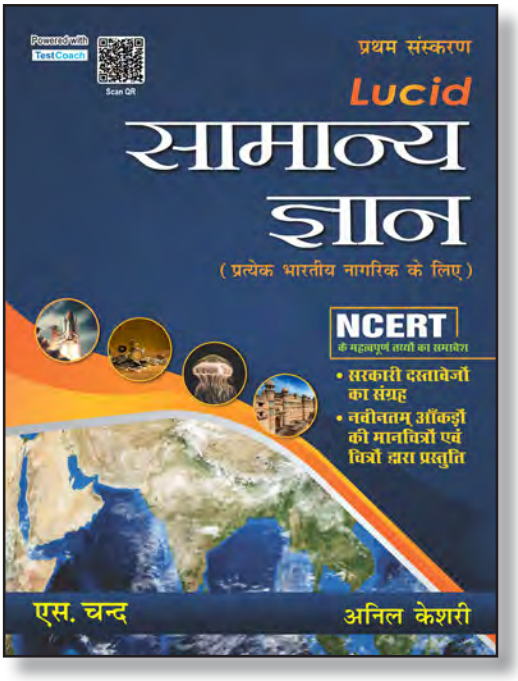
### About the Book

General knowledge is a topic that interests all Indian citizens, but there is no one definitive definition of what is general knowledge. Some people have abstract knowledge about agriculture, while others are experts in sports, economics, weather, or politics. The development of a complete personality requires General Knowledge of all areas. This book will be unique in the context of areas of completeness where an attempt has been made to store the knowledge of about 23 subjects in one book.

### Key Features

- Incorporates maps, illustrations, and diagrams to engage and improve content.
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## LUCID सामान्य ज्ञान

Anil Keshri

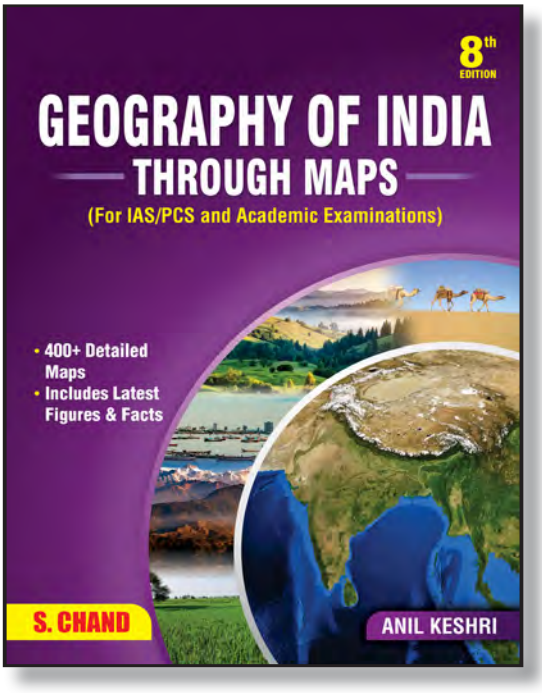
### About the Book

पुस्तक लेखन एवं लेखन का प्रस्तुतीकरणष एक महत्वपूर्ण पुस्तक है जो प्रतियोगिता परीक्षाओं के लिए तैयारी करने वाले छात्रों और शिक्षकों के लिए उपयोगी है। इसमें विषयों की विस्तृत जानकारी और प्रश्नों के उत्तर सहित उपयोगी जानकारी है। यह अद्भुत संसाधन भूगोल, इतिहास, और अन्य विषयों के लिए है।

### Key Features

* पुस्तक में मानचित्र, चित्र, और आरेख शामिल हैं जो पाठकों को सामग्री प्रस्तुति में मदद करते हैं।
* यह पुस्तक प्रतियोगी परीक्षाओं के लिए वर्तमान रुझानों पर आधारित है और उम्मीदवारों को तैयार करती है।
* विषय-वस्तु के साथ विश्लेषण और विकास को ध्यान में रखकर तैयार किया गया है।
* पुस्तक प्रामाणिक स्रोतों के साथ तैयार किया गया है जो विश्वसनीयता और सटीकता सुनिश्चित करते हैं।
* दृश्य सामग्री, व्यवस्थित सामग्री, और विश्वसनीय जानकारी के साथ पुस्तक को पाठक के अनुकूल बनाया गया है।ष

**ISBN: 9789355018663 I Price: ₹ 425 | Pages: 432**




## Geography of India Through Maps

## For IAS/PCS and Academic Examinations, 8/e

Anil Keshri

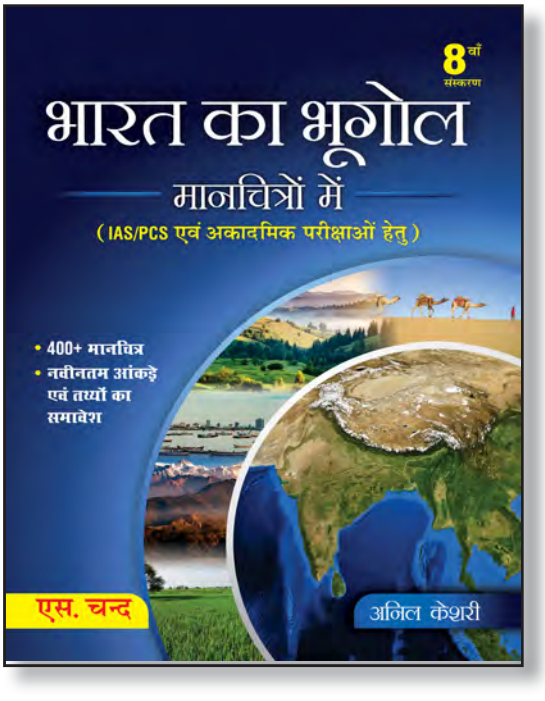
### About the Book

The experience during the study and teaching of geography inspired me to transmit information of any subject and its performance in the maps at one place. The book presents the themes of INDIAN GEOGRAPHY in four dimensions: first - Subject information, second - Concept of subject, third - Analytical aspect of subject, fourth - Presentation of subject in maps or diagrams. A total of more than 400 maps have been presented in the book which not only helps in understanding the subject but also making the book unique. The relevance of traditional and current context has also been taken into consideration in the choice of subjects in the book, and information has been collected from recognized and authentic sources to help to make it flawless

### Key Features

- With more than 400 maps and diagrams
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## भारत का भूगोल मानचित्रों में

## ( IAS/PCS एवं अकादमिक परीक्षाओं हेतु )

अनिल केशरी

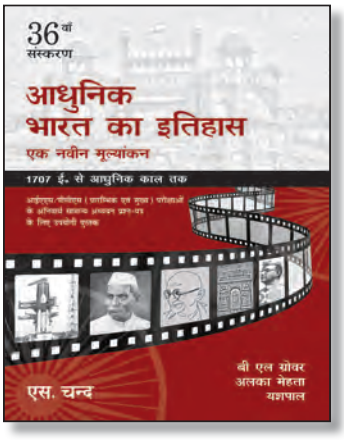
### पुस्तक के विषय में

भूगोल के अध्ययन और शिक्षण के दौरान हुए अनुभव ने किसी भी विषय की सूचना एवं मानचित्र में उनके प्रदर्शन को एक ही स्थान पर प्रेषित करने के लिए मुझे प्रेरित किया। पुस्तक में भारत के भूगोल के प्रसंगों को चार आयामों में प्रस्तुत किया गया है। प्रथम- विषय की सूचना, द्वितीय- विषय की अवधारणा, तृतीय- विषय का विश्लेषणात्मक पक्ष, चतुर्थ- विषय को मानचित्र या डायग्राम में प्रस्तुति। पुस्तक में कुल 400 से अधिक मानचित्रों को प्रस्तुत किया गया है जो न सिर्फ विषय को समझने में मदद करता है अपितु पुस्तक को अनूठा भी बना रहा है। पुस्तक में विषयों के चुनाव में पारंपरिक तथा वर्तमान संदर्भ की प्रासंगिकता का भी ध्यान रखा गया है तथा सूचनाओं का संग्रहण मान्यता प्राप्त प्रामाणिक स्रोतों से किया गया है ताकि इसे त्रुटिरहित बनाने में सहायता मिल सकें।

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- प्रसंगों में नवीनतम् संकल्पनाएँ
- नवीनतम आंकड़ों का समावेश
- मानचित्र एवं उससे संबधित तथ्य एक साथ

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## आधुनिक भारत का इतिहास एक नवीन मूल्यांकन

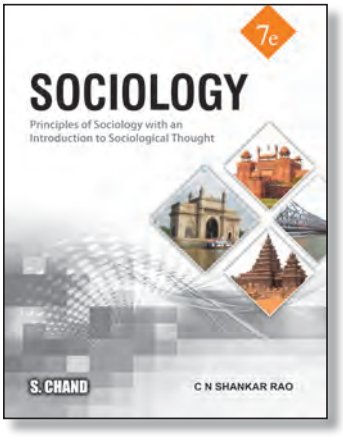
बी. एल. ग्रोवर, अलका मेहता एंव यशपाल

### पुस्तक के विषय में

यह आधुनिक भारत के इतिहास की अत्यन्त लोकप्रिय एवं सबसे अधिक बिकने वाली पुस्तकों में से एक है। इसमें आधुनिक भारत के इतिहास (1707 ई. से आधुनिक काल तक) के विभिन्न पहलुओं की विस्तार से विवेचना की गयी है। इस पुस्तक में न केवल तथ्यात्मक आँकड़ों का समावेश है अपितु इसमें विभिन्न विषयों पर पाश्चात्य एवं भारतीय इतिहासकारों की व्याख्या दी गयी है। यह पुस्तक इतिहास के स्नातक स्तर के विद्यार्थियों के लिए उपयोगी है साथ ही विभिन्न प्रतियोगी परीक्षाओं में सम्मिलित हो रहे अभ्यर्थी भी इससे लाभान्वित होंगे।

**बी एल ग्रोवर, विभाग के प्रमुख- इतिहास, हंस राज कॉलेज, दिल्ली विश्वविद्यालय।**

**ISBN: 9789352832347 Price: ₹ 750 Pages: 640 Size: 6.75" X 9.5"**



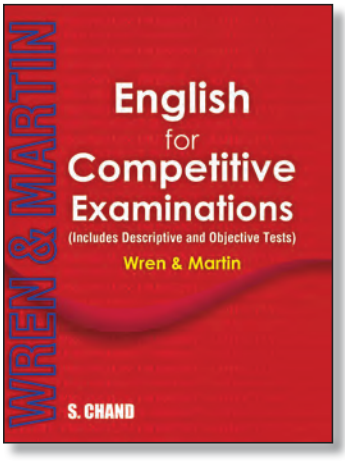

## Sociology 7e

C N Shankar Rao

### About the Book

This textbook has been comprehensively written to acquaint the students with the fundamental concepts of sociology as well as provide an introduction to the diverse field of sociology. Students will be introduced to the origins of sociology as a discipline and would get acquainted with relevant topics such as inequality, institutions, control, change, disorganisation & problems in the society. Topics such as applied sociology and social thought have also been provided to give a complete overview of the subject. This textbook not only caters as a primary text to the undergraduate students of Sociology but is also a useful reference for postgraduate students and aspirants appearing for various competitive examinations.

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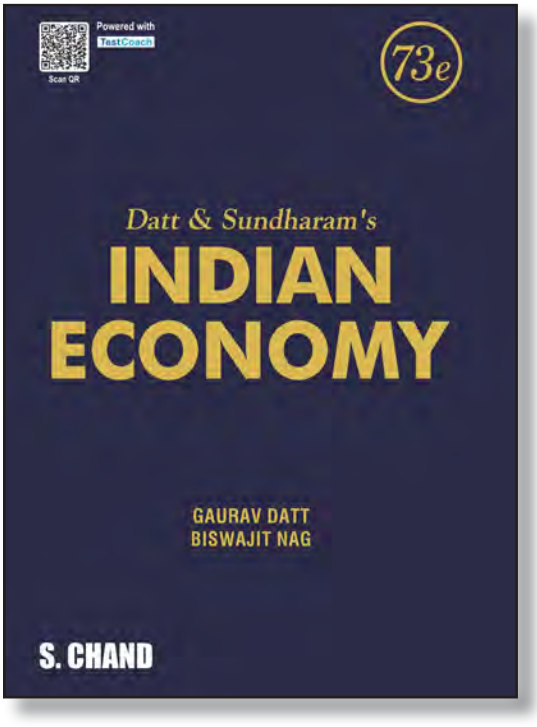
Wren & Martin

### About the Book

This book has been designed by combining the goodness of the original W&M text, High School Grammar & Composition, and specialized content developed by a panel of competitive examination experts in the area of the English language. The USP is therefore adapting a classical text to the needs of the various admission and recruitment competitive examination aspirants. Its exhaustive coverage ensures that virtually no competitive examination remains untouched.

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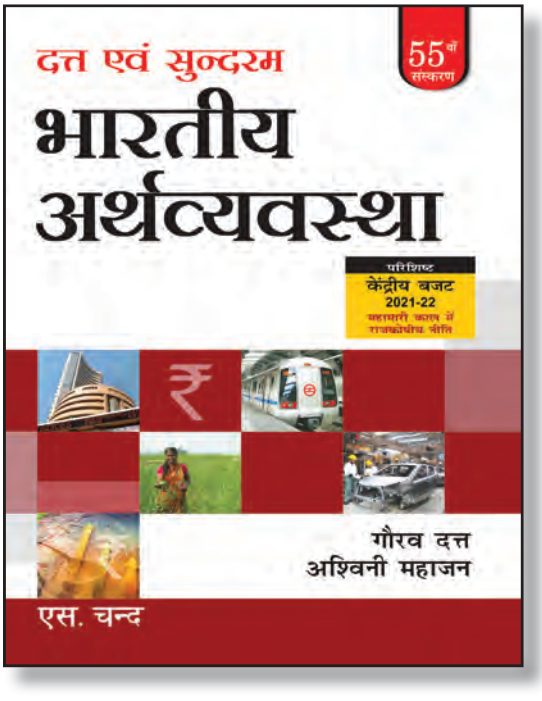

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## भारतीय अर्थव्यवस्था, 55वाँ संस्करण

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### पुस्तक के विषय में

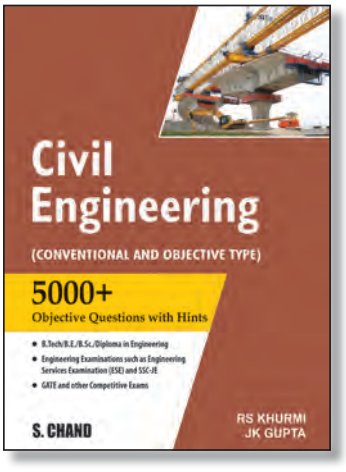
इस पुस्तक में भारतीय अर्थव्यवस्था को एक व्यापक सर्वेक्षण प्रस्तुत किया गया है। इसमें अर्थव्यवस्था के विभिन्न क्षेत्रों जैसे कृषि, उद्योग और सेवा क्षेत्र के साथ-साथ सकल देशीय उत्पाद, उसकी वृद्धि दर, बचत विनियोग इत्यादि का विश्लेषण भी किया गया है। हमारा सदैव यह प्रयास रहता है कि नए अध्याय जोड़ते हुए वर्तमान अध्यायों यथायोग्य संशोधन करें ताकि भारतीय अर्थव्यवस्था की उभरती समस्याओं और अवसरों की बेहतर समझ विकसित हो सके।

### प्रमुख विशेषताएँ

- केंद्रीय बजट 2020-22: महामारी काल में राजकोषीय नीति
- नीति आयोग
- थोक मूल्य सूचकांक के औचित्य पर बहस
- नई श्रृंखला पर आधारित राष्ट्रीय आय के अनुमान

**गौरव दत्त**, एसोसियेट प्रोफ़ेसर, अर्थशास्त्र विभाग, मोनाश विश्वविद्यालय, क्लेटन, ऑस्ट्रेलिया
**अश्विनी महाजन**, एसोसियेट प्रोफ़ेसर, अर्थशास्त्र विभाग, पी.जी.डी.ए.वी. कॉलेज, दिल्ली विश्वविद्यालय, दिल्ली

**ISBN: 9789385676444 | Code: 1008N00013 | Price: ₹ 790 | Pages: 1,104 | Size: 6.75" X 9.5"**




## Civil Engineering: Conventional and Objective Type

R S Khurmi & J K Gupta

### About the Book

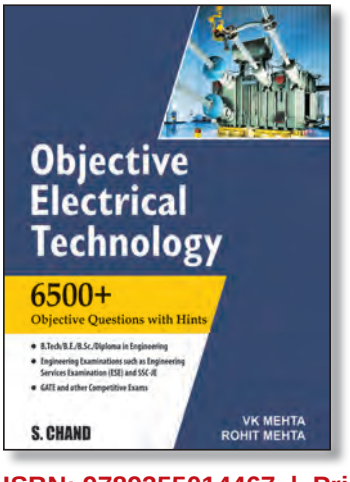
For more than 30 years "Civil Engineering: Conventional and Objective Type" continues to be a comprehensive text aided by a collection of multiple-choice questions specifically for aspirants of various competitive examinations such as GATE, UPSC, IAS, IES and SSC-JE among others as well as students who are preparing for university examinations.

The new edition contains 17 chapters where every important concept of Civil Engineering is fairly treated. On the other hand, the questions provided in this book have been selected from various potent resources to provide the students with an idea of how the questions are set and what type of questions to expect on the final day

### Key Features

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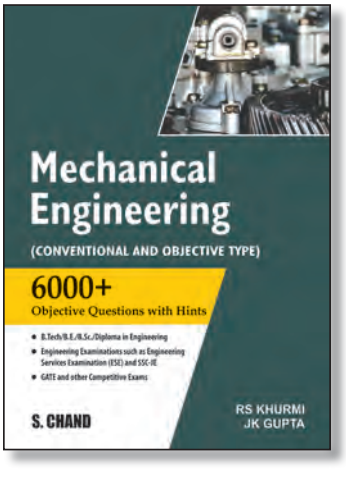

## Objective Electrical Technology

V K Mehta & Rohit Mehta

### Key Features

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- Over 200 topical explanations: Are available on the website https://www.schandpublishing.com/ which adds to the learning quotient of the reader.

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## Mechanical Engineering: (Conventional and Objective Type)

R S Khurmi & J K Gupta

### About the Book

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### Key Features

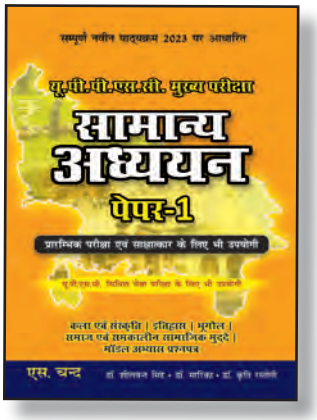
- Divided in 17 chapters containing more than 6000+ questions with hints provide rich practice
- Numerous graphs and figures providing ample support to the theory explained

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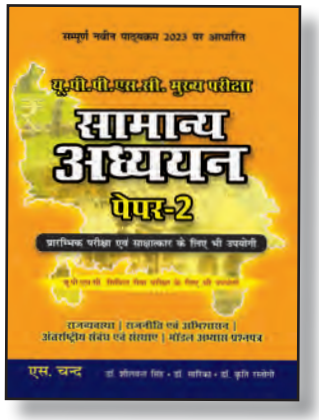
# सामान्य अध्ययन ( पेपर 1-6 )

## यू.पी.पी.एस.सी. मुख्य परीक्षा के लिए

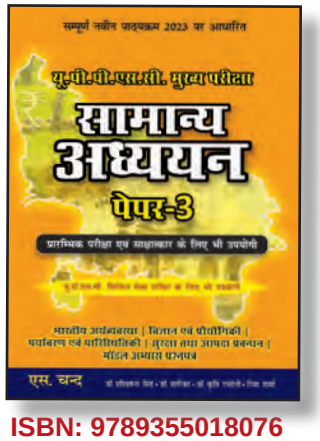
• डॉ. शीलवन्त सिंह • डॉ. सारिका • डॉ. कृति रस्तोगी • रीमा शर्मा



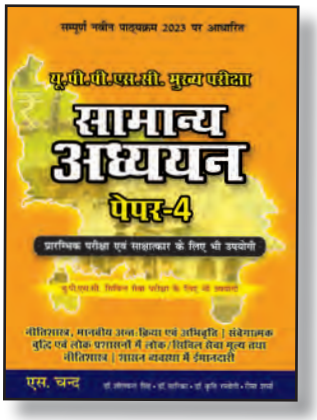

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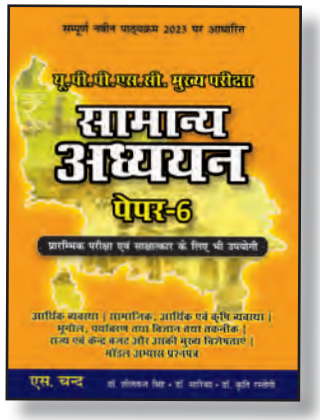

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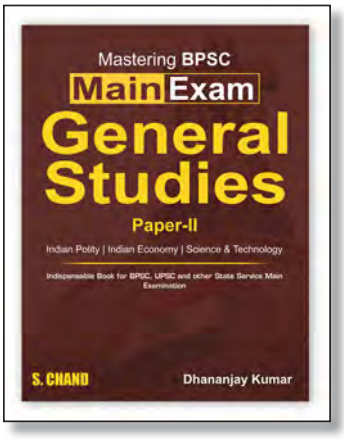

ISBN: 9789355018007
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### पुस्तक के विषय में

इस पुस्तक में उत्तर प्रदेश पीएससी की मुख्य परीक्षा (पेपर 1-6) के पूर्णतया नवीन पाठयक्रम के गहन विश्लेषण के उपरांत विषयवार वर्गीकरण, विगत वर्षों के प्रश्नों की प्रवृति का विश्लेषण करने के बाद सूचनात्मक, तथ्यात्मक अधतन आंकड़ों की साथ अवधारणत्मक प्रस्तुति की गई हैं ! यह पुस्तक न सिर्फ मुख्य परीक्षा बल्कि प्रारंभिक परीक्षा और साक्षात्कार के लिए भी सामान्य रूप से उपयोगी हैं

### प्रमुख विशेषताएँ

- अध्ययन रणनीति एवं दृष्टिकोण प्रपत्र के साथ
- पाठ्क्रम का विषयवार वर्गीकरण एवं विश्लेषण
- सम्बंधित विषयवस्तु के विगत वर्षों के पूछे गए प्रश्नों का हल
- विगत वर्षों के पूछे गए प्रश्नों के आधार पर मॉडल हल प्रश्नपत्र एवं मॉडल प्रश्न
- पूर्णतया पाठ्क्रम पर आधारित, अधतन सूचनात्मक, तथ्यात्मक सूचनाओं की प्रस्तुति
- विषयवस्तु को सुग्राही बनाने के हेतु मानचित्रों, समीचीन तथ्यों और आंकड़ों की सारणीगत प्रस्तुति




## Mastering BPSC Main Exam General Studies Paper 2

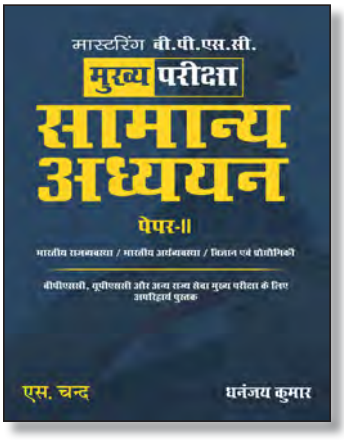
Dhananjay Kumar

"Mastering BPSC Main Exam" offers an in-depth and meticulously crafted book tailored to meet the demands of the Civil Services Main Examinations (Union Public Service Commission (UPSC), Bihar Public Commission (BPSC), and other State Service Commissions) focusing on Polity, Economics, and Science and Technology subjects. This book will help BPSC aspirants complete their GS Main Exam Paper II and help UPSC aspirants complete their GS Main Paper II and Paper III. This book seamlessly bridges the traditional syllabus-based approach with a dynamic realm of current affairs, ensuring that aspirants are well-prepared to tackle both expected and unpredictable questions with confidence.

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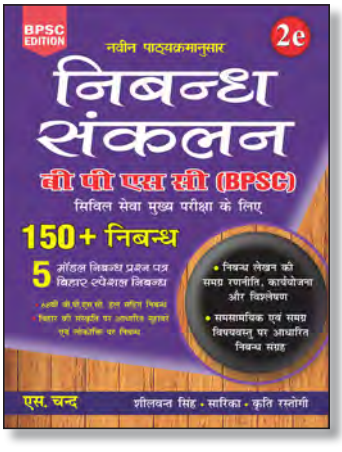

## Mastering BPSC मुख्य परीक्षा सामान्य अध्ययन पेपर-2

Dhananjay Kumar

### पुस्तक के विषय में

यह पुस्तक "Mastering BPSC मुख्य परीक्षाष रजनीति, अर्थशास्त्र और विज्ञान और प्रौद्योगिकी विषयों पर ध्यान केंद्रित करते हुए सिविल सेवा मुख्य परीक्षा (संघ लोक सेवा आयोग (UPSC), बिहार लोक सेवा आयोग (BPSC), और अन्य राज्य सेवा आयोगों) मांगों को पूरा करने के लिए गहन और सावधानीपूर्वक तैयार की गई हैं ! यह पुस्तक ठच्छै उम्मीदवारों को उनकी GS मुख्य परीक्षा पेपर II को पूरा करने में मदद करेगी और UPSC उम्मीदवारों को उनके GS मुख्य पेपर II और पेपर III को पूरा करने में मदद करेगी। यह पुस्तक पारंपरिक पाठ्यक्रम आधारित दृष्टिकोण को समसामयिक घटनाक्रमों के गतिशील दायरे के साथ सहजता से जोड़ते हुए यह सुनिश्चित करती हैं कि उम्मीदवार आत्मविश्वास के साथ अपेक्षित और अप्रत्याशित दोनों तरह के प्रश्नों से निपटने के लिए अच्छी तरह से तैयार हों

**ISBN: 9789358707496 | Price: ₹ 449 | Pages: 360**




## निबन्ध संकलन (2e)

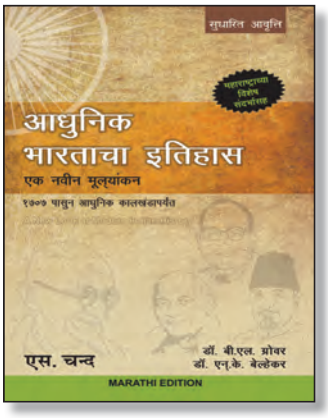
## बी पी एस सी (BPSC) सिविल सेवा मुख्य परीक्षा के लिए

शीलवन्त सिंह, सारिका, कृति रस्तोगी

### प्रमुख विशेषताएँ

- निबन्ध लेखन की रणनीति एवं कार्ययोजना।
- वर्गीकरण, लेखन कौशल की चर्चा।
- निबन्ध की फ्रेमिंग और लेखन की विधा की रणनीति।
- निबन्ध का विषयवार एवं विषयवस्तुवार वर्गीकरण
- समसामयिक एवं सम्भावित निबन्ध का समावेश

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**B L Grover,** Head of Department - History, Hans Raj College, University of Delhi

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### अद्ययावत मराठी व्याकरण व शब्दार्णव

Dr. Ashalata Gutte

**About the Book**

'मराठी व्याकरण' अशी व्याकरण शास्त्राच्या महत्वाच्या ग्रंथाची सूचना देतो, ज्याच्या माध्यमातून मराठी भाषेच्या नियम, संरचना आणि प्राण जाणून घेता येतात. हे ग्रंथ मराठी भाषेच्या वाक्यशास्त्र, व्याकरण, शब्दशास्त्र आणि बोधनांच्या प्रमुख घटकांची आवश्यक माहिती प्रदान करता।

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* सकाळ वृत्तपत्र समूहाचा सकाळ एक्सलन्स अवॉर्ड 2019 प्रदान
* नांदेड सिटी आयकॉन अवॉर्ड 2020 प्रदान (रेडिओ सिटी 91.1तर्फे)

**ISBN: 9789355019851 | Price: ₹ 599 | Pages: 560**




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**मध्यप्रदेश राज्य सेवा मुख्य परीक्षा**

अमित साहू

**पुस्तक के विषय में**

एमपीपीएससी राज्य सेवा (मुख्य) परीक्षा (सामान्य अध्ययन पेपर-II) मे भारतीय राजनीतिक विचारकों की शुरुआत भारतीय विचारकों के बढ़ते महत्व, उनके विचारों और प्रासंगिकता को दर्शाती है। ये विचारक केवल सामान्य अध्ययन पेपर-II के लिए ही महत्वपूर्ण नहीं हैं, बल्कि ये आपके सामान्य अध्ययन पेपर-II और निबंध पेपर के लिए भी उतने ही महत्वपूर्ण है। आप भारतीय विचारकों के विविध उदाहरणों, सुझावों का उपयोग अपने मुख्य प्रश्न-पत्र और व्यक्तिगत परीक्षण (पर्सनेलिटी टेस्ट) में भी कर सकते हैं क्योंकि इनमें से अधिकतर विचारक आधुनिक भारत के निर्माता थे।

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डॉ. आशालता गुट्टे

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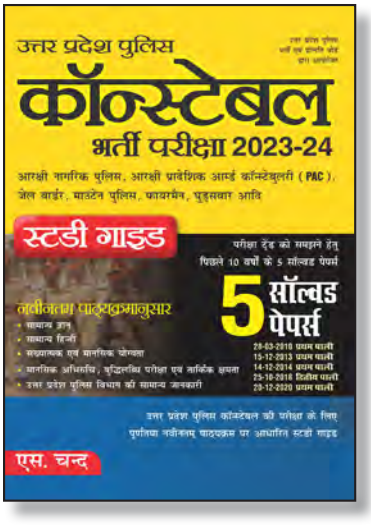

## उत्तर प्रदेश पुलिस कॉन्स्टेबल भर्ती परीक्षा 2023-24 ( प्रैक्टिस बुक )

S. Chand Experts

**ISBN: 9789355017369 | Price: ₹ 295 | Pages: 316 | Size: 8.25" X 10.5"**

**प्रमुख विशेषताएँ**

- उत्तर प्रदेश पुलिस भर्ती एवं प्रोन्नति बोर्ड द्वारा आयोजित यूपी कांस्टेबल भर्ती परीक्षा 2023 के नवीनतम् पाठ्यक्रम पर आधारित पाठ्य सामग्री।
- इस पुस्तक की विषयवस्तु को इस प्रकार से व्यवस्थित किया गया हैं कि तथ्य व संकल्पना का बेहतर समन्वय हो सके
- यूपी पुलिस कॉन्स्टेबल 2023 परीक्षाओं के लिए इस प्रैक्टिस बुक में सभी महत्वपूर्ण विषयों को शामिल किया गया है।
- परीक्षा के ट्रेंड को समझने के लिए पिछले 10 विभिन्न वर्षों के 5 हल प्रश्नपत्र।
- इस बुक से आप 2023 परीक्षा की सटीक तैयारी कम समय में कर सकेंगे।




## उत्तर प्रदेश पुलिस कॉन्स्टेबल भर्ती परीक्षा 2023-24 ( स्टडी गाइड )

S. Chand Experts

**ISBN: 9789355017314 I Price: ₹ 495 I Pages: 472 I Size: 8" X 10.5"**

**प्रमुख विशेषताएँ**

- उत्तर प्रदेश पुलिस भर्ती एवं प्रोन्नति बोर्ड द्वारा आयोजित UP Constable भर्ती परीक्षा 2023 के नवीनतम् पाठ्यक्रम पर आधारित पाठय सामग्री।
- इस पुस्तक की विषयवस्तु को इस प्रकार से व्यवस्थित किया गया हैं कि तथ्य व संकल्पना का बेहतर समन्वय हो सके
- यूपी पुलिस कॉन्स्टेबल 2023 परीक्षाओं के लिए इस अध्यायवार गाइडबुक में सभी महत्वपूर्ण विषयों को शामिल किया गया है।
- विगत वर्षों में आयोजित प्रश्नपत्रों का व्याख्यात्मक हल सहित अध्यायवार संकलन।
- परीक्षा के ट्रेंड को समझने के लिए पिछले 10 विभिन्न वर्षों के 5 हल प्रश्नपत्र
- इस गाइड बुक से आप 2023 परीक्षा की सटीक तैयारी कम समय में कर सकेंगे




## UPSSSC PET: (Preliminary Eligibility Test)

डॉ. विजय शंकर श्रीवास्तव

**प्रमुख विशेषताएँ**

- उत्तर प्रदेश अधीनस्थ सेवा चयन आयोग (UPSSSC) द्वारा आयोजित प्रारम्भिक अर्हता परीक्षा (PET) के नवीनतम् पाठ्यक्रम पर आधारित पाठ्य सामग्री।
- NCERT द्वारा निर्धारित सैकेण्ड्री/सीनियर सेकेण्ड्री स्तर के आधार पर तथ्यों का संकल्प।
- विगत वर्षों में आयोजित प्रश्नपत्रों का व्याख्यात्मक हल सहित अध्यायवार संकलन।
- जनवरी 2022 से अब तक के समसामयिकी का वस्तुनिष्ठ प्रश्नों के रूप में संकलन।
- वर्ष 2021 में आयोजित दोनों पालियों के हल सहित प्रश्न पत्र।
- वर्ष 2022 में आयोजित दोनों पालियों के हल सहित प्रश्न पत्र।

**ISBN: 9789355017390 | Price: ₹ 450 | Pages: 572 | Size: 8.25" X 10.5" (Paperback)**




## बिहार पुलिस सिपाही भर्ती परीक्षा 2023 प्रैक्टिस बुक

S. Chand Experts

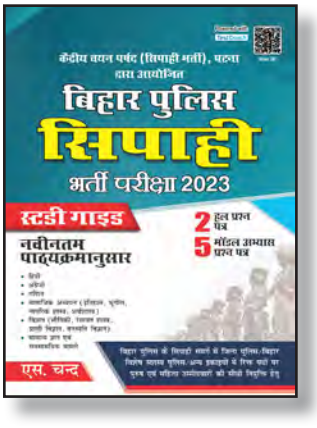
**ISBN: 9789355018595**
**Price: ₹ 250**
**Pages: 200**

### पुस्तक के विषय में

इस पुस्तक ने 2023 के बिहार पुलिस सिपाही भर्ती परीक्षा के लिए नवीनतम पाठ्यक्रम और प्रारंभिक परीक्षा पैटर्न पर आधारित एक विशेषज्ञ टीम द्वारा तैयार किया गया है। इसमें 5 हल प्रश्न पत्र और 16 अभ्यास प्रश्न पत्र शामिल हैं, जिनका उपयोग विशेषज्ञों और पूर्व पास छात्रों के अनुशंसा के आधार पर किया गया है, ताकि यह पुस्तक सर्वोत्तम प्रयास हो।

### प्रमुख विशेषताएँ

* नवीनतम पाठ्यक्रम और प्रारंभिक परीक्षा पैटर्न पर आधारित पुस्तक
* 16 अभ्यास प्रश्न पत्र और 5 हल किए गए प्रश्न पत्र
* विशेषज्ञ टीम द्वारा तैयार प्रासंगिक और संरेखित सामग्री
* महत्वपूर्ण परीक्षा पाठ्यक्रम का व्यापक और मजबूत आधार




## बिहार पुलिस सिपाही भर्ती परीक्षा 2023 गाइड

S. Chand Experts

**ISBN: 9789355018601**
**Price: ₹ 599**
**Pages: 572**

### पुस्तक के विषय में

यह पुस्तक 2023 की बिहार पुलिस सिपाही भर्ती परीक्षा के लिए तैयारी के लिए एक महत्वपूर्ण संसाधन है। इसमें नवीनतम पाठ्यक्रम और परीक्षा पैटर्न के आधार पर तैयारी के लिए 2 प्रश्न पत्र और 5 मॉडल अभ्यास प्रश्न पत्र शामिल हैं। यह छात्रों के लिए उपयुक्त है और पिछले वर्षों के हल प्रश्न पत्र भी दिए गए हैं।

### प्रमुख विशेषताएँ

* बिहार पुलिस कांस्टेबल भर्ती परीक्षा 2023 के लिए अनुकूलित अध्ययन गाइड
* विशेषज्ञ टीम द्वारा तैयार नवीनतम पाठ्यक्रम और परीक्षा पैटर्न पर आधारित
* समग्र पाठ्यक्रम का आवश्यक आधार प्रदान करती है
* परीक्षा विषयों का व्यापक अध्ययन मार्गदर्शिका
* पिछले प्रश्नपत्रों और समाधानों के साथ प्रश्न पत्रों के अभ्यास
* 2 हल प्रश्न पत्र और 5 मॉडल अभ्यास प्रश्न पत्र शामिल हैं।




## WBPSC West Bengal Police Exam Constable & Sub Inspector (Bengali) 2023

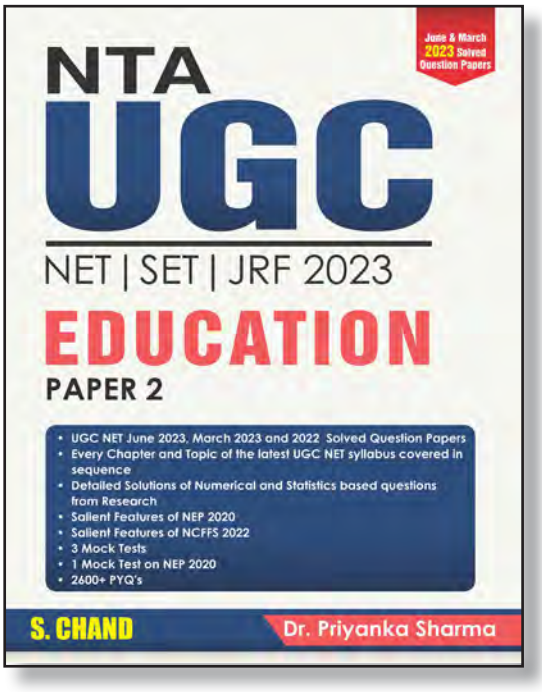
**ISBN: - 9789358701746**
**Price: ₹ 350**
**Pages: 276**

### About the Book

The "West Bengal Police 2023" book in Bengali is tailor-made for those preparing for the West Bengal and Kolkata Police Constable and Sub-Inspector exams, including the WBPSC. It offers high-quality study materials.

### Key Features

* Comprehensive coverage of exam subjects.
* West Bengal and Kolkata Police exams.




## NTA UGC NET | SET | JRF 2023 Education Paper 2 : Includes June & March 2023 Solved Question Papers

Dr. Priyanka Sharma

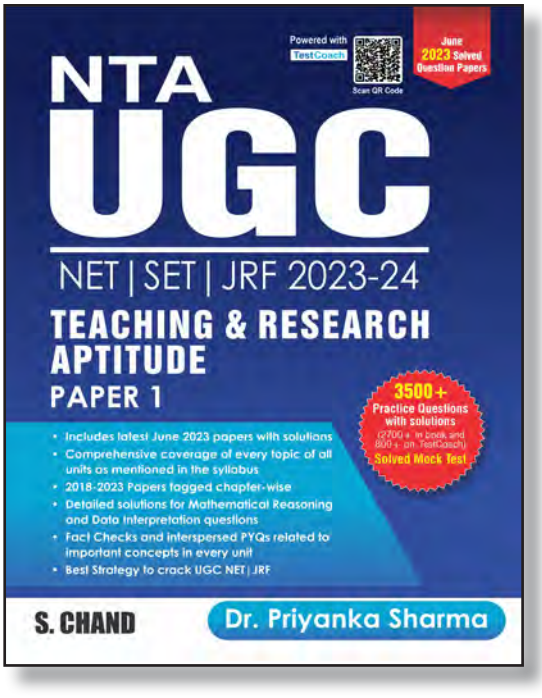
### About the Book

The UGC's National Eligibility Test (NET) is vital for Indian academics, determining eligibility for Assistant Professor and JRF roles. This book, designed for Paper 2 Education (Paper Code 9), covers essential concepts with charts and fact-check boxes for easy comprehension. It integrates NEP 2020 and NCFFS 2022, providing insights into the current education landscape. Additionally, it includes a dedicated NEP 2020 quiz to keep readers updated on educational reforms, enriching their knowledge base and ensuring a dynamic learning experience. This book serves as a valuable resource for NET aspirants seeking a comprehensive understanding of their subject matter.

### Key Features

1. UGC NET June 2023, March 2023 and 2022 Solved Question Papers
2. Every Chapter and topic of the latest NET syllabus covered in sequence
3. Detailed Solutions of Numerical and Statistics based questions from Research
4. Salient Features of NEP 2020
5. Salient Features of NCFFS 2022
6. 3 Mock Tests
7. 1 Mock Test on NEP 2020
8. 2600+ Previous Year Question's (PYQs)"

**ISBN: 9789355018670 | Price: ₹ 895 | Pages: 860**




## NTA UGC NET /SET/JRF 2023-24 Teaching & Research Aptitude Paper 1 | 3500+ Practice Question with Solutions

Dr. Priyanka Sharma

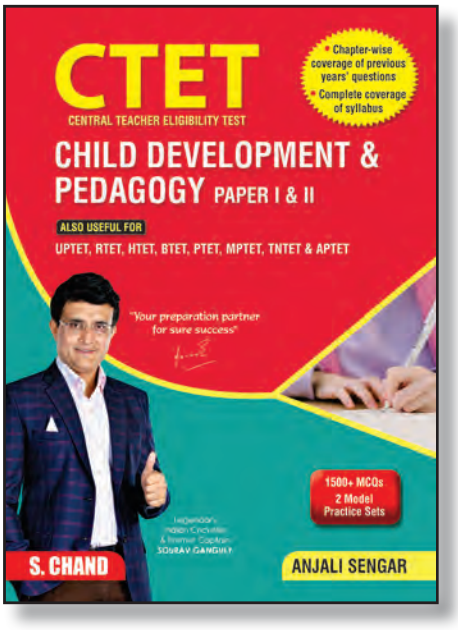
### About the Book

The The UGC's National Eligibility Test (NET) is crucial for Assistant Professor and JRF roles in Indian universities. This book includes the latest papers from 2018 to 2023 with solutions, aligning with the syllabus and exam trends. It covers all syllabus topics, offers 3500+ practice questions, and fo cuses on Mathematical Reasoning and Data Interpretation. The book provides strategies for success in UGC NET/JRF Paper 1 and is essential for aspirants of various entrance tests in Central and State universities

### Key Features

1. Includes latest June 2023 papers with solutions
2. Comprehensive coverage of every topic of all units as mentioned in the syllabus
3. 2018-2023 Papers tagged chapter-wise
4. Detailed solutions for Mathematical Reasoning and Data Interpretation questions
5. Fact Checks and interspersed PYQs related to important concepts in every unit
6. Best Strategy to crack UGC NET|JRF"

**ISBN: 9789358707878 | Price: ₹ 650 | Pages: 720**




## CTET Child Development & Pedagogy Paper I & II

Anjali Sengar

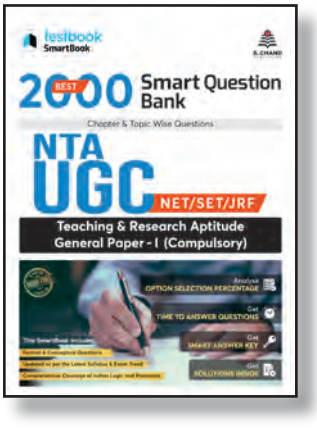
### About the Book

Written in lucid prose and thoughtfully sprinkled with tables, owcharts and diagrams, Child Development and Pedagogy (Paper I and II) aims to be a comprehensive guide to boost the preparation of the students as they go through the carefully designed chapters the book systematically covers all the major and minor topics to ensure that students don't face any unfamiliar concepts or theories in the exam. A "Brain Teasers" section is included at the end of each chapter for quick revision and reference, and it is followed by previous years' questions to help the students test their knowledge. Solved practice tests at the end will help the students to check their progress and increase their grasp over the subject.

### Key Features

- Chapter-wise coverage of previous years' questions
- Complete coverage of syllabus
- 1500+ MCQs
- 2 Model Practice Sets

**ISBN: 9789355014948 | Price: ₹299 | Pages: 236 | Size: 8.25" X 10.5"**



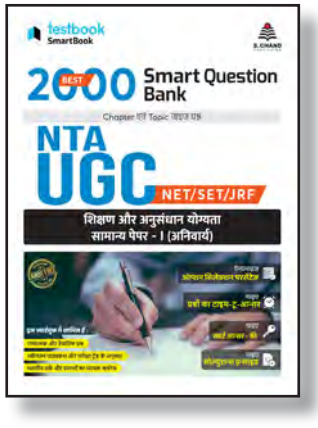

## NTA-UGC NET/SET/ JRF, Teaching & Research Aptitude General Paper-I (Compulsory)

Testbook

**ISBN: 9789355016508**
**Price: ₹399**
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### Key Features

- 2000 top questions curated for online students.
- Machine learning aids in providing ideal answers.
- Comparative data analysis for smart answers.
- Expert-led live classes for concept clarity.
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## NTA-UGC NET/SET/JRF, शिक्षण और अनुसंधान योग्यता सामान्य पेपर - I ( अनिवार्य )

Testbook

**ISBN: 9789355017208**
**Price: ₹395**
**Pages: 348**
**Size: 8.25" X 10.5"**

### मुख्य विशेषताएँ

- 2000 प्रश्न वेब पर शार्टलिस्ट किए गए हैं।
- मशीन लर्निंग से कठिन प्रश्नों के उत्तर तैयार किए गए हैं।
- तुलनात्मक प्रदर्शन डेटा के साथ प्रश्नों के स्मार्ट उत्तर हैं।
- विशेषज्ञ संकायें लाइव क्लासेस प्रदान करती हैं।
- उम्मीदवारों को विशेष विकल्पों की जानकारी मिलती है।




## BPSC भाषा ( अर्हता ) English एवं हिन्दी भाग I एवं II बिहार शिक्षक नियुक्ति परीक्षा

S. Chand Expert

### पुस्तक के विषय में

प्रस्तुत पुस्तक बीपीएससी बिहार शिक्षक नियुक्ति परीक्षा भाषा (अर्हता), बिहार में आयोजित प्राथमिक माध्यमिक तथा उच्च माध्यमिक विद्यालयों के शिक्षक प्रतिभागियों के लिए लिखी गई है। पुस्तक में बिहार लोक सेवा आयोग (बीपीएससी) द्वारा निर्धारित नवीनतम पाठ्यक्रम को अध्यायवार अभ्यास प्रश्नों के रूप में प्रस्तुत किया गया है। अनिवार्य विषय के रूप में भाषा (अर्हता) प्रश्न पत्र के दो भाग हैं – प्रथम भाग अंग्रेजी भाषा (25 अंक) तथा द्वितीय भाग हिंदी भाषा (75 अंक) पर आधारित है। इस प्रश्न पत्र में अर्हतांक कम से कम 30% प्राप्त करना अनिवार्य है।

### प्रमुख विशेषताएँ

- पाठ्यक्रम का संपूर्ण कवरेज
- अभ्यास प्रश्नों का अध्यायवार समावेश

**ISBN:** 9789355018557 | **Price:** ₹ 225 | **Pages:** 208 | **Size:** 8" X 10.5"




## BPSC सामान्य अध्ययन बिहार शिक्षक नियुक्ति परीक्षा

S. Chand Expert

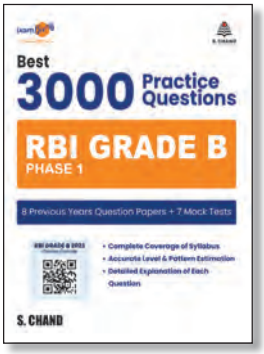
### पुस्तक के विषय में

प्रस्तुत पुस्तक बीपीएससी द्वारा आयोजित बिहार शिक्षक नियुक्ति परीक्षा के अंतर्गत प्राथमिक विद्यालयों के शिक्षक प्रतिभागियों के लिए लिखी गई है। यह पुस्तक माध्यमिक एवं उच्च विद्यालयों के अध्यापकों की तैयारी के लिए भी उपयोगी है। पुस्तक में सामाजिक विज्ञान, भारतीय राष्ट्रीय आंदोलन, भूगोल, सामान्य विज्ञान, मानसिक क्षमता परीक्षण, प्राथमिक गणित, सामान्य जागरूकता तथा पर्यावरण पर परीक्षोपयोगी अध्ययन सामग्री प्रस्तुत की गई है। प्रत्येक अध्याय के अंत में अभ्यास प्रश्न एवं उसकी विस्तृत व्याख्या भी दिए गए हैं। जो प्रतिभागियों की तैयारियों को ठोस रुप प्रदान करेंगे।

### प्रमुख विशेषताएँ

- परीक्षा उपयोगी
- अध्ययन सामग्री
- विषयों की अवधारणाओं की स्पष्ट प्रस्तुति
- सरल एवं सहज भाषा
- अभ्यास प्रश्नों का समावेश

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Testbook

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## SSC General Knowledge in English

Testbook

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## SSC क्वांटिटेटिव एप्टीट्यूड - हिन्दी

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## SSC General Intelligence and Reasoning

Testbook

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**Size: 8.25" X 10.5"**




## SSC जनरल इंटेलिजेंस और रीजनिंग

Testbook

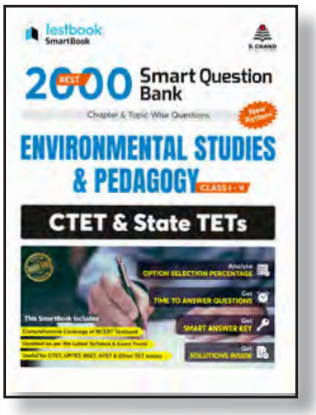
**ISBN: 9789355012135**
**Price: ₹ 575**
**Pages: 708**
**Size: 8.25" X 10.5"**




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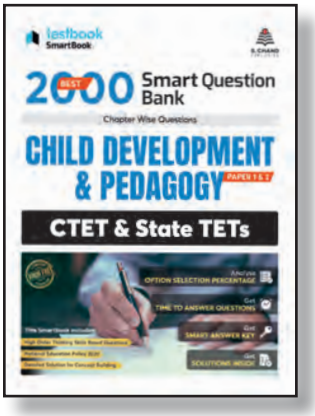
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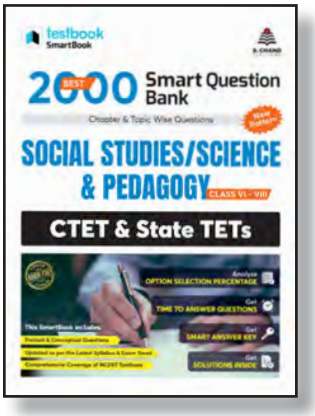
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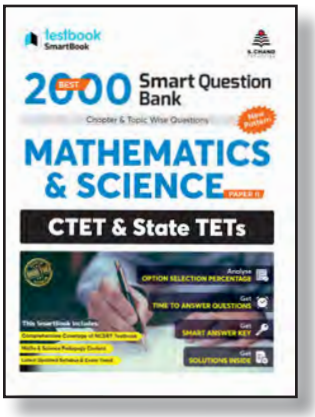
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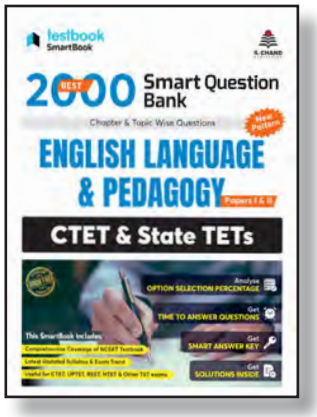

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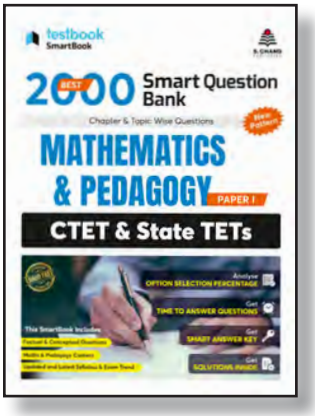
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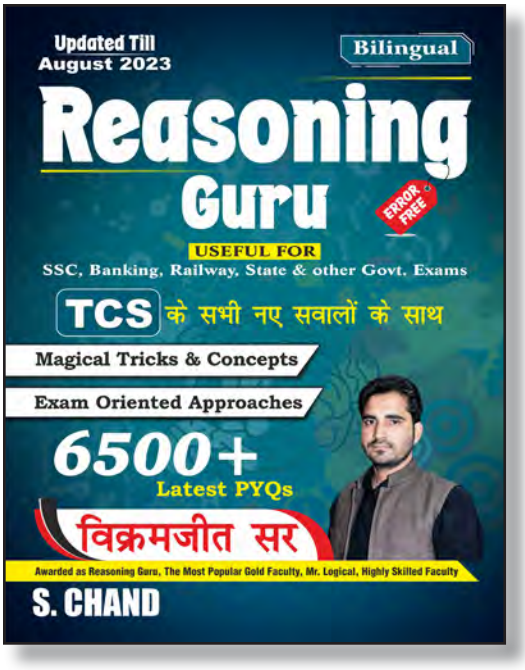

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## Reasoning Guru Verbal & Non-Verbal Reasoning With Latest TCS MCQs | 6500+ PYQs | Bilingual Edition 2023

Vikramjeet Sir

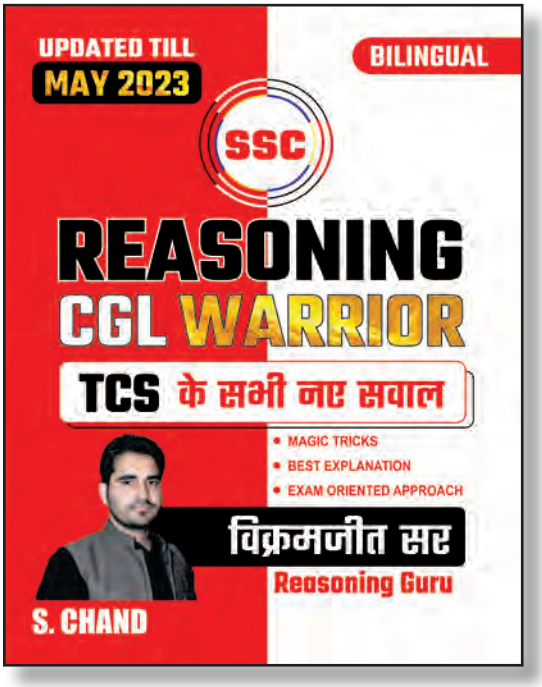
### About the Book

The book, ;REASONING GURU&; is a comprehensive guide that has been designed to help students acquainted with the latest exam pattern. This is an extensive book, that covers all chapters of reasoning with theory, PYQs ; and their detailed explanations. This book has been prepared by Vikramjeet Sir ; and his well-experienced content team, keeping the latest questions of SSC CGL, CHSL, CPO, MTS, Banking ; Railway exams in mind This book has been extensively prepared for the students who are preparing for any competitive examinations. The book will help the students in building ; and understanding the concepts and format of the exam. This book is quite student friendly ; and uses very easy and lucid language. The solutions to questions are given in Hinglish so that students can easily understand what we want to explain. hghghghg "

### Key Features

1. Basic to Advance Reasoning
2. Magical Tricks & Concepts
3. Exam Oriented Approaches
4. 6500+ Latest Previous Year Questions
5. Comprehensive theory, PYQs, and detailed explanations.
6. TCS के सभी नये सवालों के साथ।
7. The tricks and concepts to solve questions quickly."

**ISBN: 9789358706000**
**Price: ₹ 700 | Pages: 748**




## SSC REASONING CGL WARRIOR TCS All New Questions Update Till 2023 : Bilingual Edition

Vikramjeet Sir

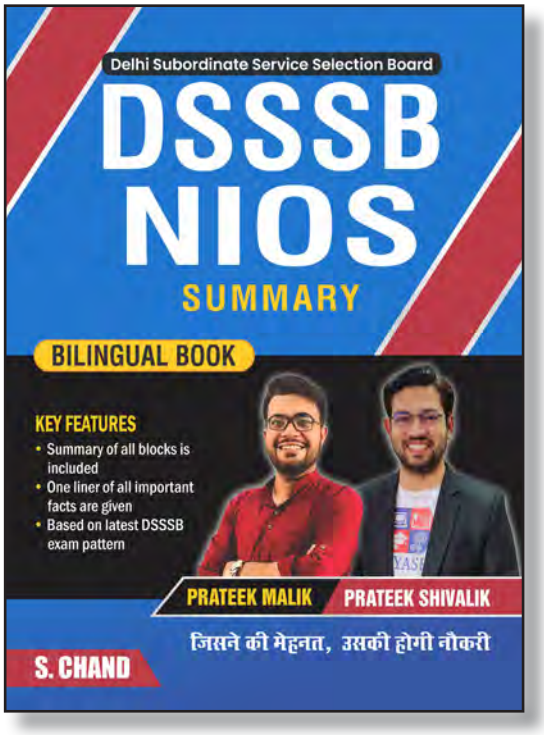
### About the Book

The book, "REASONING CGL WARRIOR" is a comprehensive guide that has been designed to help students acquainted with the latest exam pattern. This book has been prepared by Vikramjeet Sir & his well experienced content team. Kepping the latest questions of SSC CGL exams in mind this book has been extensively prepared for the students who are preparing for the CGL examination. The book will help the students in understanding the structure and format of the exam.

### Key Features

- Latest exam pattern familiarity
- Thorough coverage
- Crucial reasoning
- Best Explanation
- Expertly prepared
- Exam structure clarity
- Magic Tricks
- Exam Oriented Approach

**ISBN: 9789355018243 | Price: ₹ 275 | Pages: 265 | Size: 8" X 10.5"**




## DSSSB NIOS Summary Based on the latest DSSSB Exam Pattern Block wise Summary | Bilingual Book

Prateek Malik & Prateek Shivalik

### About the Book

This book is a focused study guide for DSSSB Primary Teacher Exam candidates. It's authored by Prateek Malik, a renowned DSSSB teacher, and refined by Prateek Shivalik. The book provides comprehensive block-wise summaries of NIOS material, aiding diligent exam preparation. Its goal is to enhance understanding and boost exam scores. Notably, it covers all subject blocks thoroughly, presents key information concisely, and aligns with the latest DSSSB exam pattern to keep candidates prepared for evolving requirements

### Key Features

1. Summary of all blocks is included.
2. One liner of all important facts are given.
3. Based on the latest DSSSB exam pattern.

**ISBN: 9789355018717 | Price: ₹ 599 | Pages: 608**




## 8000 + Daily Use English Sentences

Nimisha Bansal

### About Book

8000+ Daily Use English Sentences" is a special book that helps people become better at speaking English. It has lots of sentences for everyday situations like talking with friends, at work, or when traveling. Whether you're new to English or already know a lot, this book can make you better. It's like a friend that teaches you common phrases and words you can use every day. It makes you more confident and skilled in English. This book is not just a book; it's like a helpful friend for anyone who wants to talk well in today's English-speaking world.

### Key Features

* For all English learners
* Common phrases for daily communication
* Boosts confidence in using English
* Improves expression clarity
* Covers diverse situations
* Easy-to-understand language

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## सरल English All in One English Grammar

Dharmendra Sir (DSL)

### About the Book

English plays a very vital role in competitive exams to understand the reading, writing, and understanding skills of the candidates.

English remains very challenging for many aspirants. There are many aspirants who cannot clearly be cut off for the exam only for English. Most of the aspirants think that English is the toughest part of competitive exams.

So, Saral English - ALL IN ONE BOOK is specially designed keeping in view the needs of such aspirants. The book consists of .27 chapters and each chapter is explained in a very comprehensive and lucid manner for an easy and clear understanding of the concepts.

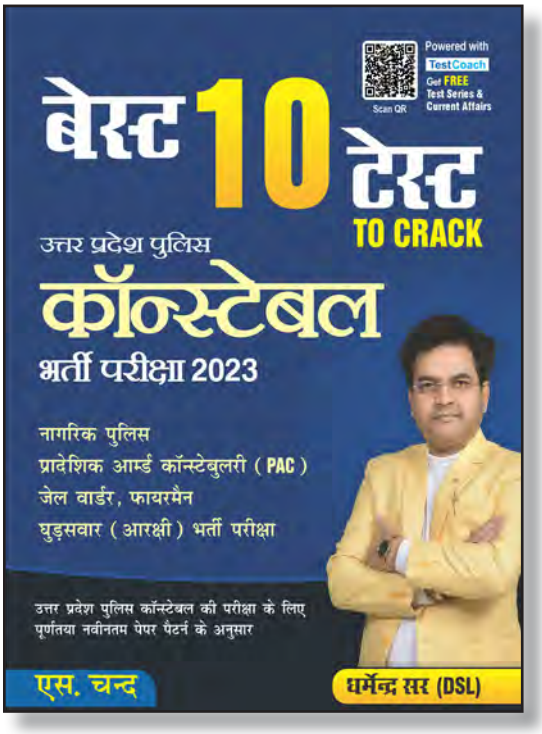
At the end of each chapter, practice sets have been provided with a detailed solution to take your preparation to the next level.

This book will support and guide each aspirant whose dream is to excel in any competitive exam.

### Useful For

- This book is useful for SSC CGL, CPO, CHSL, and all other competitive exams.

**ISBN: 9789355017093 | Price: ₹ 750 | Pages: 736 | Size: 6.75" X 9.5"**




## Best 10 Test to Crack Uttar Pradesh (UP) Police Constable Bharti Pariksha 2023

Dharmendra Sir

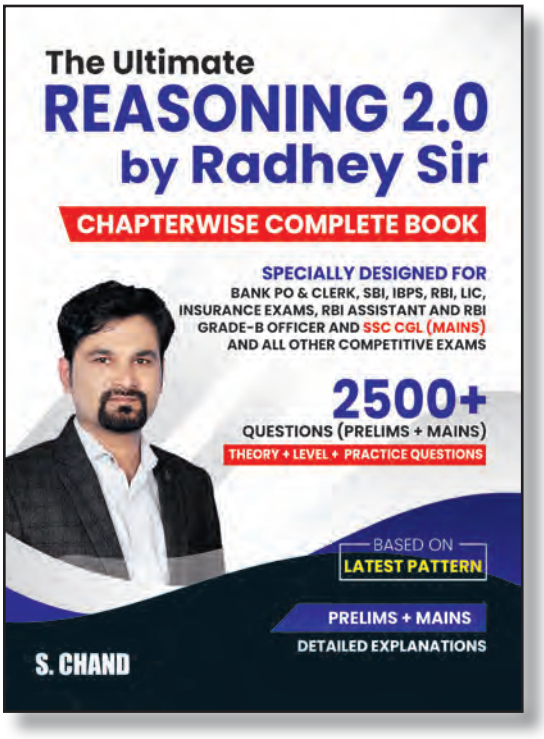
### पुस्तक के विषय में

यह पुस्तक उत्तर प्रदेश पुलिस भर्ती एवं प्रोन्नति बोर्ड द्वारा आयोजित यूपी पुलिस कांस्टेबल भर्ती परीक्षा 2023 के नवीनीकृत आवश्यकताओं के अनुरूप पूर्णत परिमार्जित संस्करण हैं ! आयोग द्वारा निर्धारित नवीनतम पाठ्यक्रम व प्रश्नों की व्यापकता को दृष्टिगत रखते हुए इस पुस्तक में बेस्ट 10 टेस्ट दिए गए हैं ! यूपी पुलिस कांस्टेबल 2023 भर्ती की तैयारी के लिए यह पुस्तक बहुत सहयोग प्रदान करेगी ! इसमें दिए गए 10 टेस्ट आपके संपूर्ण पाठ्यक्रम को रिवाइज करने में सहयोग करेंगे एवं परीक्षा में विगत वर्षों में पूछे गए प्रश्नों का अभ्यास भी करवाएंगे !

### मुख्य विशेषताएँ

1. उत्तर प्रदेश पुलिस भर्ती एवं प्रोन्नति बोर्ड द्वारा आयोजित यूपी पुलिस कांस्टेबल भर्ती परीक्षा 2023 के नवीनतम पाठ्यक्रम पर आधारित टेस्ट दिए गए हैं !
2. वर्ष 2018 एवं वर्ष 2010 में हुए प्रश्न पत्र हल सहित समावेश किया गया हैं !
3. प्रत्येक प्रश्न का व्याख्यात्मक हल दिया गया हैं !
4. प्रश्न इस प्रकार व्यव्यस्थित किये गए हैं कि उनका कठिनाई का स्तर बढ़ता जाता हैं।

**ISBN: 9789355018854 I Price: ₹ 150 I Pages 144**




## The Ultimate Reasoning 2.0 by Radhey Sir : Chapterwise Complete Book

Radhey Sir

### About the Book

A Complete Chapterwise Book Reasoning 2.0 incorporates more than 2500+ questions on the different patterns of Questions. The Questions are based on the questions asked in the past 5-years in different Banking, Insurance, and Other Competitive Examinations. These are also provided to get the students acquainted with the change in pattern through all these years. The best Tricks and Concepts along with their detailed explanations on how to solve the Questions with the proper Approach have been provided in the book.

### Key Features

- New and Convenient Approach to solve the tricky Questions.
- Incorporates more than 15 type of Puzzles & Sitting Arrangement.
- Incorporates all kinds of latest pattern questions.
- Incorporates Level Wise Questions.
- Incorporates the latest Memory Based Questions asked in SBI, IBPS, RBI & Other Examinations.

**ISBN: 9789355017437 | Price: ₹ 499 | Pages: 444 | Size: 8x10.5**




## द अल्टीमेट रीजनिंग 2.0 by राधे सर चैप्टरवाइज कम्पलीट बुक

Radhey Sir

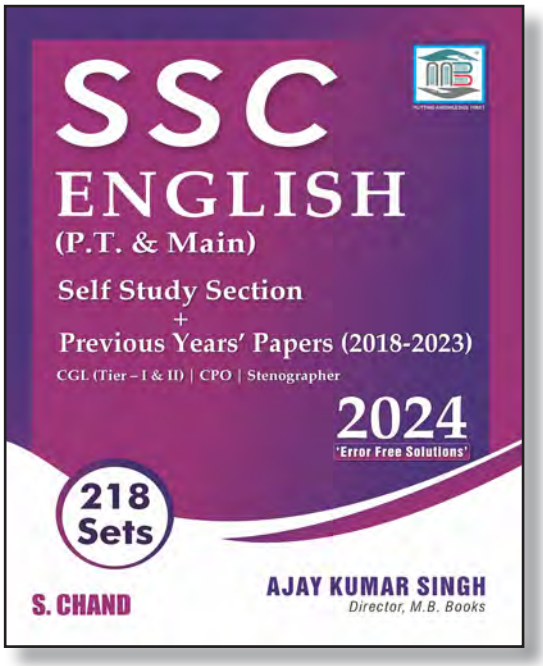
### पुस्तक के विषय में

द अल्टीमेट रीजनिंग 2.0 चौप्टरवाइज कम्पलीट बुक में विभिन्न पैटर्न पर आधारित 2500 से अधिक प्रश्नों को सम्मिलित किया गया हैं ! सभी प्रश्न विगत 5 वर्षों में बैंकिंग, बीमा, रेलवे आदि विभिन्न प्रतियोगी परीक्षाओं में पूछे गए प्रश्नों पर आधारित हैं ! इन प्रश्नों को हल करने से अभ्यर्थी विगत 5 वर्षों में परीक्षा पैटर्न में आये परिवर्तन से भी परिचित हो जायेंगे ! प्रस्तुत पुस्तक में रीजनिंग की सर्वोत्तम ट्रिक्स और कॉन्सेप्ट्स के साथ प्रश्नों के विस्तृत व्याख्या सहित हल दिया गया हैं !

### मुख्य विशेषताएँ

- कठिन प्रश्नों को हल करने के लिए नवीन और आसान एप्रोच !
- पजल और सिटिंग अरेंजमेंट के 15 से अधिक प्रकारों का समावेश !
- सभी प्रकार के नवीनतम पैटर्न पर आधारित प्रश्नों का समावेश !
- लेवलवाइज प्रश्नों का समावेश !
- एसबीआई, आइबीपीएस, आरबीआई और अन्य परीक्षाओं में पूछे गए नवीनतम स्मृति-आधारित प्रश्नों का समावेश !

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## SSC English (P.T. + Main) 218 Sets

Revised Edition

Ajay Kumar Singh

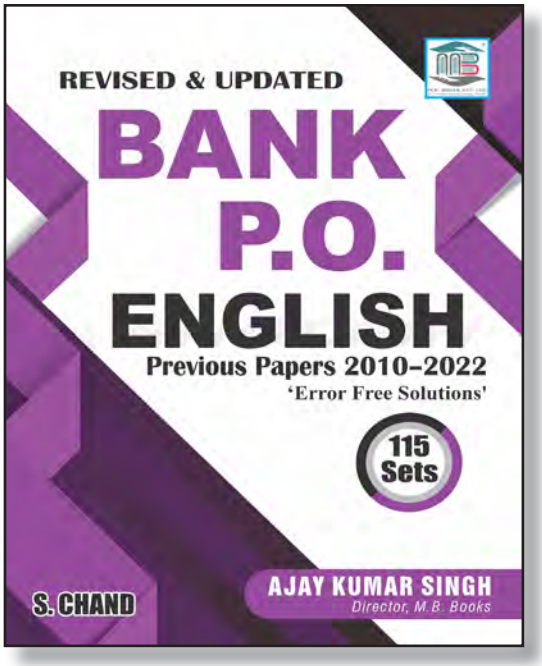
### About the Book

The SSC English aims to simplify complex concepts and enhances the aspirants; understanding. This book offers reader-friendly explanations of various sections from previous years; questions, making it easily adaptable to all learners.At the end of each explanation, you will find an impeccable collection of Word Meanings, meticulously curated to cater to your needs for synonyms and Antonyms. The crisp and lucid explanations of these Word Meanings serve as an added benefit, empowering you to effortlessly strengthen your vocabulary.Unlike lengthy explanations that can overwhelm, this book focuses on arming the aspirants with explanatory prowess concisely. Prepare with confidence, enhance your vocabulary, and master exam techniques with this book - the ultimate companion for exam success.

### Key Features

1. Comprehensive Self-Study section for Grammatical Rules.
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## Bank PO English 115 Sets : Previous Papers 2010-2022 | Error-Free Solutions | Revised & Update Edition

Ajay Kumar Singh

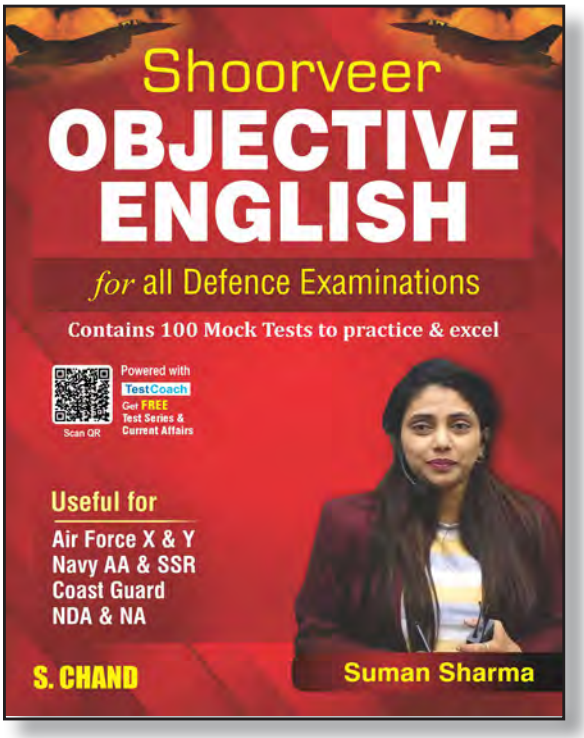
### About the Book

The The English language section is a crucial part of the Bank Probationary Officer recruitment examination. A strong understanding of the language is essential for success in this section. This book aims to help you develop that understanding. Unlike other books, this book does not provide long-winded, ambiguous, or confusing explanations. Instead, it gives you clear, concise, and precise explanations of the PYQs of various papers. The book also covers the meanings and usages of words in sufficient detail. Additionally, it provides special notes on novel types of questions that are commonly asked in Bank Probationary Officer recruitment examination.

### Key Features

1. Clear and concise explanations of the PYQs from 2010-2022
2. Comprehensive coverage of SBI, Bank of Baroda, RBI, UBI, IBPS, NABARD and Indian Bank PYQs
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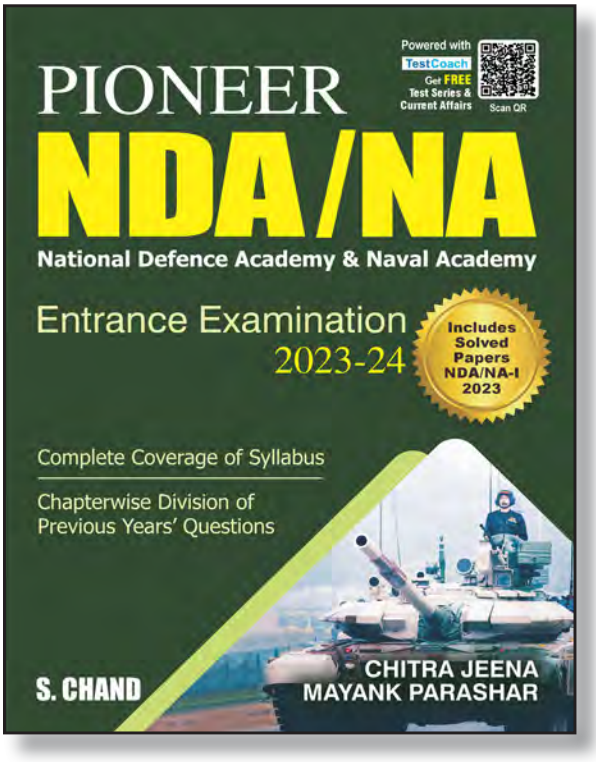

## Shoorveer Objective English For all Defence Examinations With 100 Mock Test

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- 100 Mock Tests."

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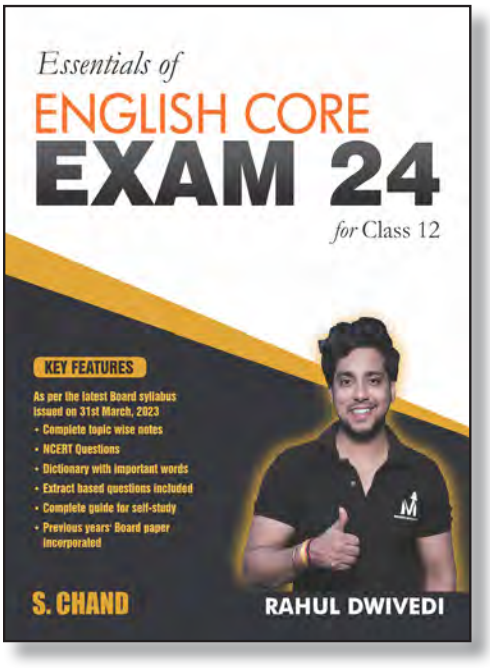
### 2023-24 | Includes Solved Papers NDA/NA - I 2023

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- Chapter-wise Analysis of past 10 Year's Papers.
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## Essentials of English Core Exam 24 for Class 12

Rahul Dwivedi

### About the Book

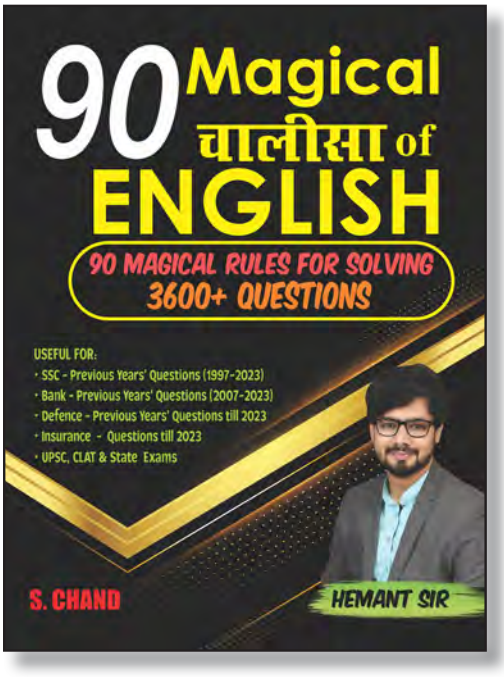
Exam 24 is an English Core book designed to provide comprehensive study material to candidates preparing for the class 12 board Exam in 2024. It gives a straightforward justification of the entire English syllabus concentrating on summary, word meanings, Questions, etc. This book has 3 parts: Reading Comprehension; Creative Writing Skills and Literature Textbooks according to the CBSE syllabus 2024. Each part contains Solved Questions and Practice Questions to reinforce learning. Furthermore, the book simplifies the writing section format for a more effective learning experience. In the Literature Part, you will find thorough coverage of two essential books: 'Flamingo' and 'Vistas.' Each chapter and poem is accompanied by summaries, NCERT questions, short questions, long questions, and RTC-based questions. To top it off, this exam includes solved Sample Question Papers, serving as a valuable resource to assess your readiness for the upcoming board exam.

### Key Features

As per the latest Board syllabus issued on 31st March 2023

- Complete topic-wise notes
- NCERT Questions
- Dictionary with important words
- Extract-based Questions included.
- Complete guide for self-study
- Previous year Board paper incorporated.
- 150-250 previous year questions for each topic

**ISBN: 9789358707342 | Price: ₹ 349 | Pages: 248**




## 90 Magical Chalisa of English | 90 Magical Rules for Solving 3600+ Questions

Hemant Sir

### About the Book

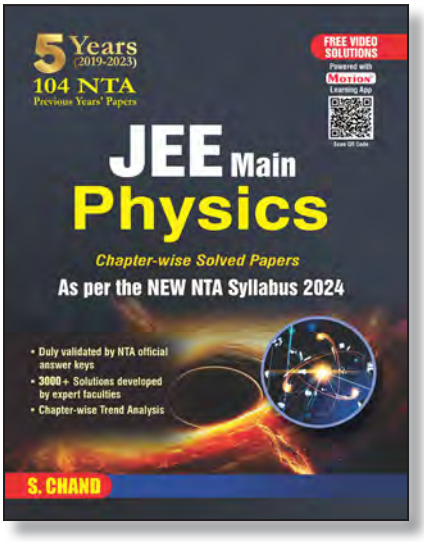
It has been seen many times that before giving exams, it is very difficult for the students to revise everything in a short span. This is the first such book in India, which is the best way to revise all the important rules of English in few hours.

### Key Features

- Chapter wise Previous Year Questions from 1997-2023
- Each chapter contains 7-8 rules
- 150-250 previous year questions for each topic
- Explanation with Tricks
- Book divided into 2 parts: 1st part for SSC related exams, 2nd part for bank type exams
- 90 Magical Rules for solving SSC questions
- 45 Magical Rules for solving Banking questions

**ISBN: 9789355018632 | Price: ₹ 529 | Pages: 356**

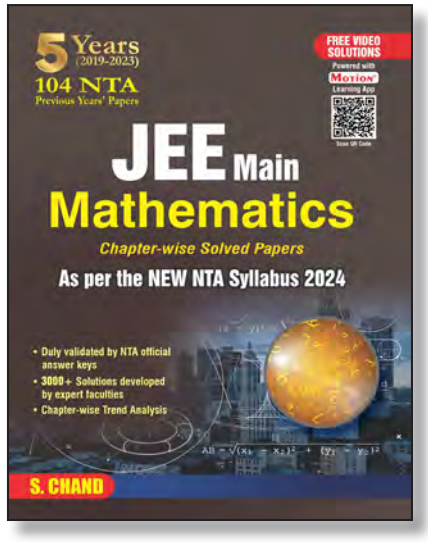
# 5 Years (2019-23) 104 NTA Previous Years' Papers JEE Main (Physics, Chemistry, Mathematics)




ISBN: 9789358703122 | Price: ₹ 799




ISBN: 9789358705249 | Price: ₹ 699




ISBN: 9789358708301 | Price: ₹ 799

## Motion

### About the Book

IIT JEE Main (Physics, Chemistry, Mathematics) is the ultimate resource designed to empower you on your journey to success in the IIT JEE Main Examination. This book offers a holistic and extensive coverage of the entire IIT JEE Main Physics syllabus ensuring that you have a deep understanding of all the essential topics and concepts right on your fingertips. To excel in any examination, it's crucial to understand its patterns and trends. That's where our meticulously selected chapter-wise PYQs from the years 2019 to 2023 come into play. By studying these past questions, you'll gain valuable insights into the exam's structure, making your preparation more effective and targeted. Learning from your mistakes is essential for growth. That is why every question in this book is accompanied by step-by-step, in-depth solutions. These solutions are not just answers; they are comprehensive explanations that guide you through the underlying principles and problem-solving techniques. Success in the IIT JEE Main Physics exam requires more than just knowledge; it demands a strategic approach. Our book is meticulously structured to align with the IIT JEE Main exam format. This approach will help you develop the skills and strategies necessary to excel on the day of the test.

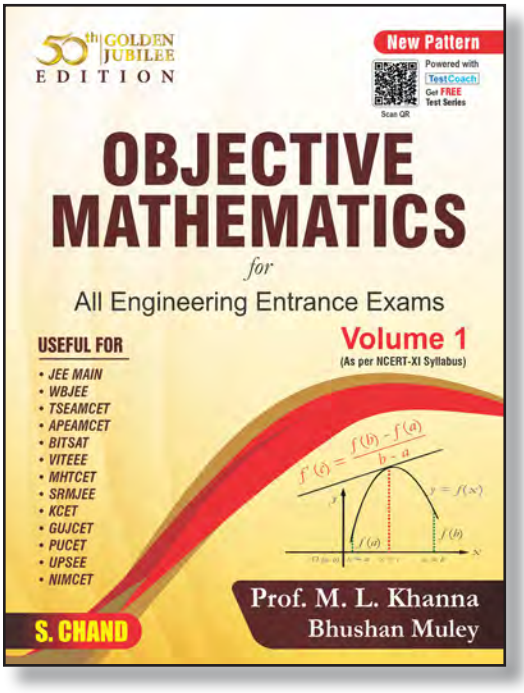
Practice makes perfect; as the adage goes, this book is your ideal practice companion.

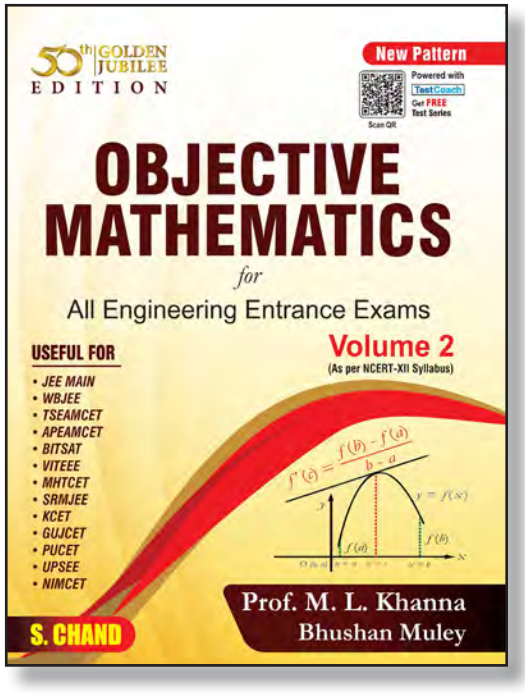
### Key Features

- Original Papers: Includes Session-1 and Session-2 papers from the last 5 years (2019-2023).
- Error-Free Solutions: Provides meticulous solutions for all questions, ensuring accuracy.
- Topic-Wise Analysis: Offers a thorough analysis of questions categorized by topics, aiding focused preparation.
- All Question Types Covered: Encompasses all question types, including Multiple Choice Questions (MCQs) and Numerical Type Questions.
- Answer Key Mapping: Aligns answer keys with NTA's official keys for precise verification.
- Expertly Developed: Developed by expert faculties to ensure high-quality content.
- Comprehensive Coverage: Solves and explains 3000+ questions from 104 NTA JEE Main online Official Papers.
- Detailed Syllabus Coverage: Covers topics comprehensively as per the JEE Main syllabus.

# OBJECTIVE MATHEMATICS For All Engineering Entrance Exams : Volume 1& 2

M.L. Khanna & Bhushan Muley




**ISBN: 9789355019790**
**Price: ₹899 Pages: 680**

**ISBN: 9789355019806**
**Price: ₹799 I Pages: 512**

## About the Book

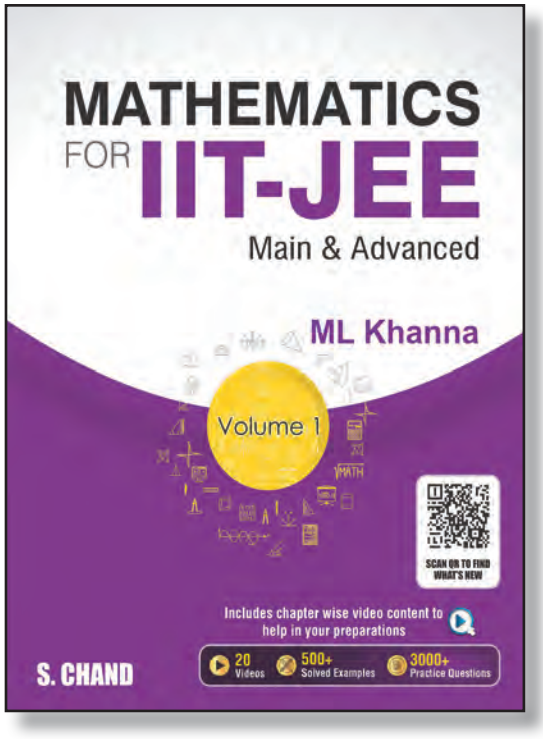
The revised "Objective Mathematics Volume 1 & 2" is introduced by an experienced educator for JEE Main and Advanced prep. It offers a structured study resource for Math, covering JEE and state-level exams. It prioritizes fundamental concepts and gradual progression to advanced topics and problem-solving strategies.

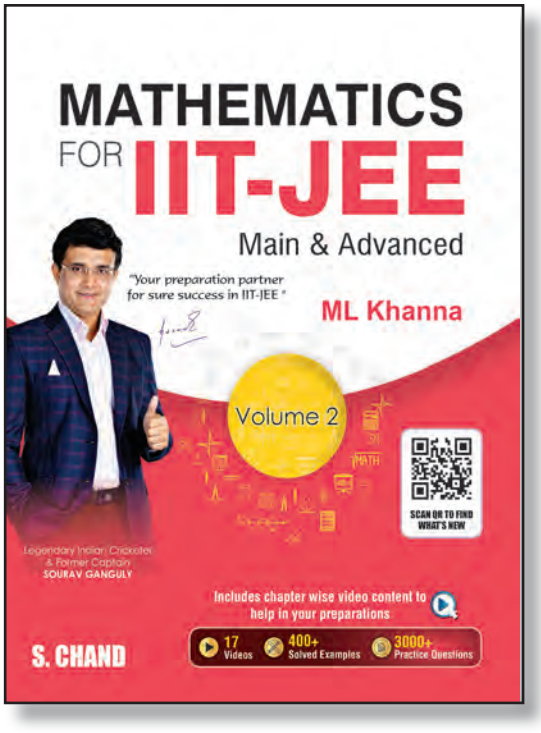
## Key Features

* Topic-wise theory well-explained with solved examples
* A huge bank of objective-type questions from every concept
* More than 5000 questions in both volumes with their solutions
* Integer /Numerical /Non-negative Integer Type Questions from previous years' examinations
* Previous years' questions for JEE Main and other various state-level pre-engineering entrance examinations
* Hints and Solutions to improve problem-solving skills
* Key points to remember at the end of each chapter"

# Mathematics for IIT-JEE Main & Advanced: Volume 1& 2

M.L. Khanna




**ISBN: 9789355014009 | Price: ₹899**
**Pages: 1076 | Size: 8" X 10.5"**

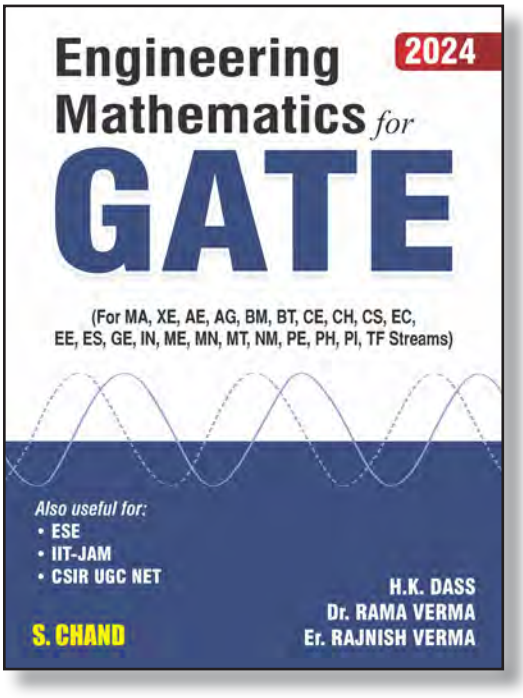
**ISBN: 9789355014085 | Price: ₹899**
**Pages: 888 | Size: 8" X 10.5"**

## About the Book

This new edition of a very well-known and popular IIT-JEE Mathematics prep book carries all its hallmark features of the earlier editions. Along with exploration of theory, definitions and derivations, the book carries a plenty of solved examples - from simple ones to more complex and tough problems in each chapter - to hand-hold students into the process of problem solving. After every important topic, problem exercises have been given which the students are expected to solve on their own. Hints and solutions of these are given in case the students need to refer to these. Apart from the newer Main and Advanced problems, this edition carries all the old classic problems of the past decades from JEE as well as other similar examinations, because many such questions and their solutions are thought to be extremely important for developing a proper pedagogical approach to solving IIT-JEE Mathematics problems irrespective of year of examination. An assortment of selected problems of Main and Advanced exams of the last 5 years have been given at the end of the book along with solutions which the students can use as integrative practice questions and also get familiar with the trends of the recently held examinations. For an audio-visual demo and to get a closer look-and-feel of solving questions live, students are advised to go through the videos given for each chapter by scanning the QR codes given on the chapter-opening page. Each of these videos have been prepared with utmost care by keeping the natural flow of treatment of the concepts in the book. These are accessible free of any additional cost to the students!

## Key Features

- Crisp introduction to each topic followed by examples for ease of understanding of the concepts
- Definitions are given and explored in the desired depth for developing concepts
- A large number of illustrations accompanied by solutions to hand-hold the learner into the development of solutions
- A large number of problem sets, with jee-main and jee-advanced sections given separately
- Complete solutions are given for all hard problems, hints for easier ones. Cross-references for hinting at possible variation of question types.




## Engineering Mathematics For GATE 2024

H K Dass, Rajnish Verma & Dr. Rama Verma

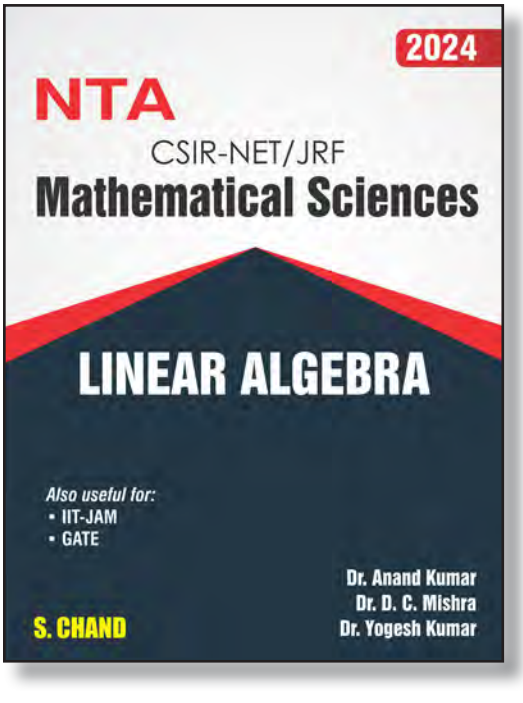
### About the Book

Engineering Mathematics is compulsory in GATE Competitions, which include around 15% of weightage of total marks in GATE papers with codes AE, AG, BT, CE, CH, CS, EC, EE, IN ME, MN, MT, PE, PI, TF, and XE. "Graduate Aptitude Test in Engineering", the GATE entrance exam is a single round for admission to Post-Graduate, (M.Tech.) conducted in turns, annually by IISc Bangalore for GATE 2024, IIT Roorkee GATE 2025, IIT Kanpur GATE 2023.

### Key Features

* GATE Engineering Mathematics Syllabus divided in 10 Chapters.
* Every topic and sub-topic include individual separate illustrations.
* Solved examples and Exercises are provided at the end of each Chapter.
* Previous Years from 2023 to 2010 Examination Questions are solved and arranged topic-wise.
* Each chapter has further topics and sub-topics division.
* Each topic has Solved Examples and Exercise at the end."

**ISBN: 9789355019073 I Price: ₹795 Pages: 604**




## NTA CSIR - NET/JRF Mathematical Sciences LINEAR ALGEBRA 2024

Dr. Anand Kumar, Dr. D.C.Mishra & Dr. Yogesh Kumar

### About the Book

This Linear Algebra guide is tailored for success in the CSIR-NET/JRF MathSciences Exam. It offers structured chapters with comprehensive theory, subjective and objective questions, diverse examples, and two types of exercises, all accompanied by 100% detailed solutions to strengthen problem-solving skills.

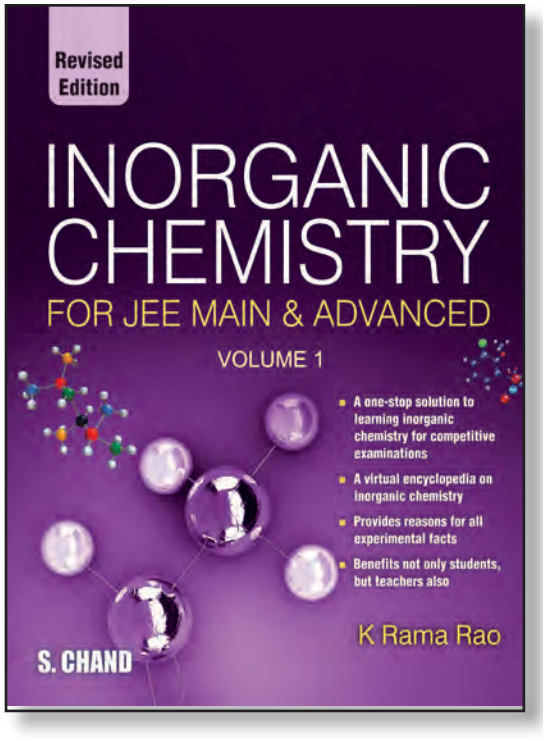
### Key Features

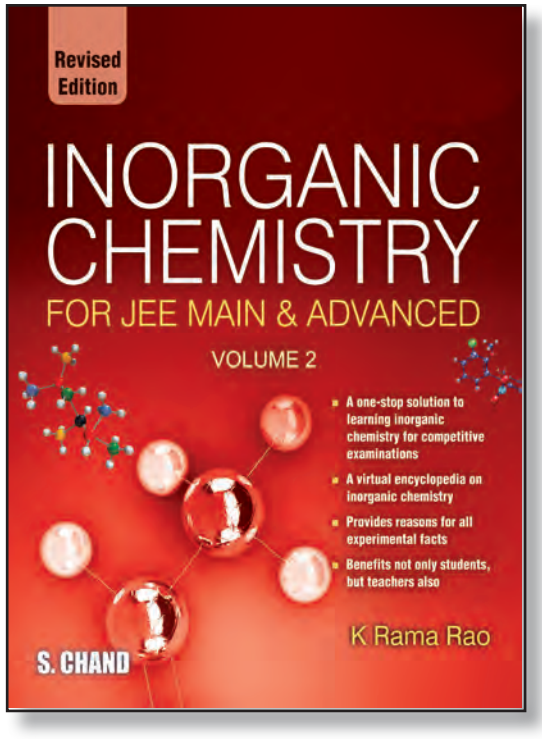
* The entire content of the book is very well-organized for CSIR-NET/IRF Mathematical Sciences Examination.
* There are divided in two sections in the book.
* Each chapter has detailed theory with both subjective and objective types with varied solved examples.
* All exercises are given with 100 % detailed solutions."

**ISBN: 9789355019554 I Price: ₹549 I Pages: 308**

# Inorganic Chemistry for JEE Main and Advanced: Volume 1 & 2

K. Rama Rao




POD

**ISBN: 9789352830169 | Price: ₹1045**
**Pages: 502 | Size: 8.25" X 10.55"**

**ISBN: 9789352830176 | Price: ₹1050**
**Pages: 500 | Size: 8.25" X 10.55"**

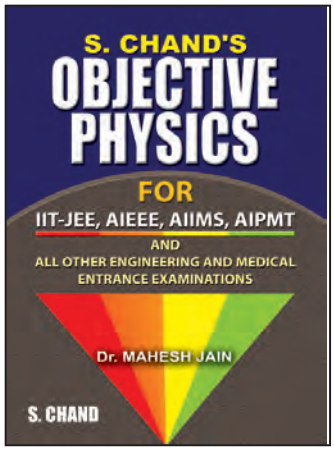
## About the Book

Inorganic Chemistry for JEE Main and Advanced Volume 1 & 2 is a comprehensive book providing an inclusive coverage of the subject as per the guidelines of the JEE Main and Advanced.

The book offers a quick revision of concepts and ample number of questions, thus facilitating conceptual understanding and an exhaustive practice to solve problems

## Key Features

- Exhaustive text that does not leave out any explanation
- Promotes conceptual understanding rather than rote learning
- Provides quick revision of concepts
- Offers enough practice to solve problems, providing answers and hints
- Solved question papers




## S. Chand's Objective Physics for IIT-JEE, AIEEE, AIIMS, AIPMT

Dr. Mahesh Jain

### About the Book

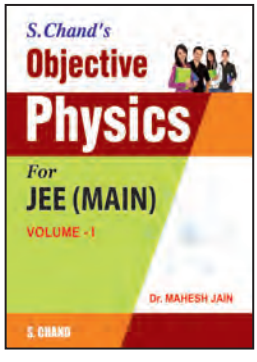
This book is written for the students preparing for the Medical and Engineering Entrance Examinations of all Indian Universities and Institutes. It is also useful for Civil Services (Prelim), J.R.F, other Examinations.

**ISBN: 9788121915304 | Code: 1006A00083 | Price: ₹ 2000 | Pages: 1,752**
**Size: 8.25" X 10.5" (Paperback)**

### Contents

Unit-1: 1. Measurement: Units, Dimensions and Errors, 2. Scalars and Vectors • *Brainteasers-I*, Unit-2: 3. Motion in a Straight Line, 4. Motion in a Plane I: Projectile Motion, 5. Forces and Newton's Laws of Motion, 6. Work, Energy and Power, 7. Conservation of Momentum Centre of Mass. Collisions, 8. Motion in a Plane II: Circular Motion, 9. Rotational Motion, 10 Gravitation, 11. Simple Harmonic Motion • *Brainteasers-II,* Unit-3: 12. Elasticity, 13. Fluid Statics, 14. Flow of Ideal Fluids, 15. Viscosity, 16. Surface • *Brainteasers-III,* Unit-4: 17. Thermal Expansion. Gas Laws and Kinetic Theory of Gases. Thermometry, 18. Heat, Work and The Laws of Thermodynamics, 19. Modes of Heat Transfer, • *Brainteasers-IV,* Unit-5: 20. Waves, 21. Superposition of Waves. Acoustics of Buildings • *Brainteasers-V*, Unit-6: 22. Ray Optics and Optical Instruments, 23. Wave Optics. Photometry • *Brainteasers-VI*, Unit-7: 24. Electrostatics, 25. Current Electricity, 26. Thermal and Chemical Effects of Current. Thermoelectricity • *Brainteasers-VII*, Unit-8: 27. Moving Charges and Magnetic Field, 28. Magnetic Dipole and Magnetism, 29. Electromagnetic Induction & Electromagnetic Waves, 30. Alternating Current Circuits • *Brainteasers-VIII*, Unit-9: 31. Atomic and Quantum Physics, 32. Nuclear Physics, 33. Solids and Electronic Devices • *Brainteasers-IX* • *Self – Assessment Tests (Set-I & II)* • *Entrance Test Questions*

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## S. Chand's Objective Physics for JEE (Main) Volume - I

Dr. Mahesh Jain

POD

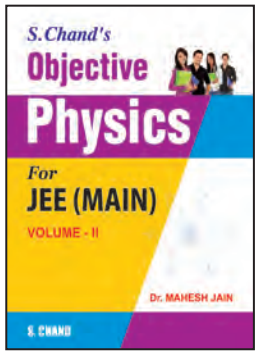
**ISBN: 9789383746941**
**Code: 1006A00212**
**Price: ₹ 1330 | Pages: 672**
**Size: 8.5" X 11" (Paperback)**

### About the Book

It is a thoroughly revised and transformed version of the earlier book. It is written specially for the newly started Joint Entrance Examination (Main), which is to be taken for admission to most of the engineering colleges and institutes in India (NITs, IITs, other centrally funded Technical Institutes and Institutes funded by many state governments). It is also serves as eligibility test for JEE (Advanced), which is exclusively for admission to IITs. The book will also be equally useful for those colleges and institutes which conduct their own entrance tests because the courses and patterns are almost the same.

### Contents

• *Syllabus for JEE (Main)* • *To The Students* • *Useful Mathematical Formulae* • *Some Important Physical Constants,* 1. Measurement: Units, Dimensions and Errors, 2. Scalars and Vectors, 3. Motion in a Straight Line, 4. Motion in a Plane-I: Projectile Motion, 5. Forces and Newton's Laws of Motion, 6. Motion in a Plane-II: Circular Motion, 5. Work, Energy and Power, 8. Conservation of Momentum Centre of Mass Collisions, 9. Rotational Motion , 10. Gravitation, 11. Simple Harmonic Motion, 12. Elasticity, 13. Fluid Statics, 14. Flow of Ideal Fluids, 15. Viscosity, 16. Surface Tension, 17. Thermal Expansion Gas Laws and Kinetic Theory of Gases Thermometry, 18. Heat, Work and Laws of Thermodynamics, 19. Modes of Heat Transfer, 20. Waves, 21. Superposition of Waves




## S. Chand's Objective Physics for JEE (Main) Volume - II

Dr. Mahesh Jain

POD

**ISBN: 9789383746958**
**Code: 1006A00213**
**Price: ₹ 1295 | Pages: 624**
**Size: 8.5" X 11" (Paperback)**

### About the Book

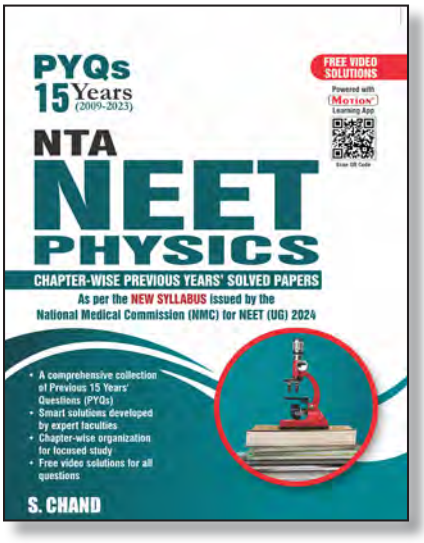
It is a thoroughly revised and transformed version of the earlier book. It is written specially for the newly started Joint Entrance Examination (Main), which is to be taken for admission to most of the engineering colleges and institutes in India (NITs, IITs, other centrally funded Technical Institutes and Institutes funded by many state governments). It is also serves as eligibility test for JEE (Advanced), which is exclusively for admission to IITs. The book will also be equally useful for those colleges and institutes which conduct their own entrance tests because the courses and patterns are almost the same.

### Contents

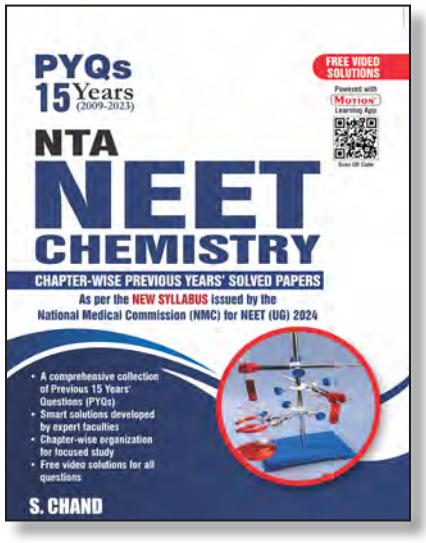
22. Electrostatics, 23. Current Electricity, 24. Electrical Energy and Power Heating Effect of Current, 25. Moving Charges and Magnetic Field, 26. Magnetic Dipole and Magnetism, 27. Electromagnetic Induction and Electromagnetic Waves, 28. Alternating Current Circuits, 29. Ray Optics, 30. Wave Optics, 31. Dual Nature of Matter and Radiation Atomic Physics, 32. Nuclear Physics, 33. Electronic Devices, 34. Communication Systems • *Model Test Papers* • *Solved Paper-JEE (Main)*

**Mahesh Jain** is Former Associate Professor, Department of Physics, Hindu College, University of Delhi.

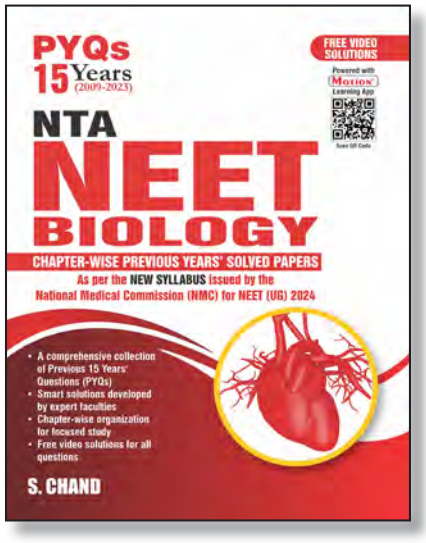
# PYQs 15 Years (2009-2023) NTA NEET : As per the New Syllabus 2024 (Physics, Chemistry, Biology)




ISBN: 9789358707922 | Price: ₹ 325




ISBN: 9789358705508 | Price: ₹ 299




ISBN: 9789358703092 | Price: ₹ 549

## Motion

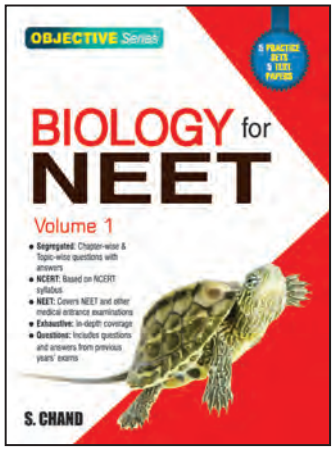
### About the Book

It is with immense pleasure and a sense of profound commitment that we present a book on NEET (Physics, Chemistry, Biology). This book seeks to serve as an invaluable resource for aspiring medical students on their journey to NEET success. This book follows the latest syllabus released by NTA for 2024 Examination. It incorporates 15 years' fully solved previous years' questions (PYQs) from years 2009 to 2023. The solutions are developed by expert faculty at Motion (A leading institute for NEET preparation).

These papers have been exhaustively analysed and presented in a chapter-wise format, facilitating a systematic approach to study. The commitment academic integrity shows in the fully solved, detailed and accurate solutions provided for each question. Additionally, this book integrates the book contents with free video solutions, accessible through the Motion Learning App. By scanning the QR Code given on the cover, students can delve deeper into the solutions provided and gain a more comprehensive understanding of each question.

### Key Features

- A comprehensive collection of Previous 15 Years' Questions (PYQs)
- Smart solutions developed by expert faculties.
- Chapter-wise organization for focused study
- Free video solutions for all questions




## Biology for NEET Volume 1 (Objective Series)

### About the Book

*Biology for NEET* comprises a comprehensive set of question and answers based on current trends in the NEET. Strictly following the NCERT course/chapter structure, the book aims at preparing the students for competing in the medical entrance examinations in a better way. For convenience and to plan for the examinations effectively, questions have been arranged both chapter-wise and topic-wise, and explanation have been provided for answers. Further, to assess the students' level of preparation, Advanced Level Questions (ALQs) and Assertion-Reason Questions have been provided in each chapter. Also, the book has numerous previous years' questions to brush-up their knowledge.

### Key Features

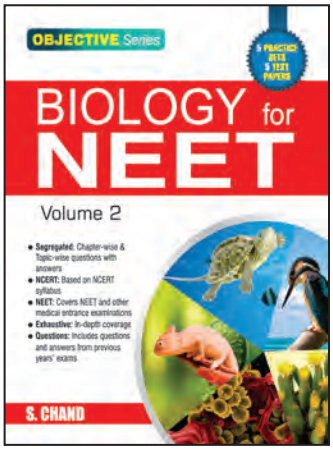
- Based on the latest pattern of the examinations.
- Questions arranged chapter-wise and topic-wise in an easy-to-understand manner.
- Advanced Level Questions (ALQs) and Assertion-Reason Questions have been provided in each chapter.
- Sufficient practice sets and test papers.
- Previous years' question papers included.

**ISBN: 9789352833788 | Code: 9789352833788 | Price: ₹ 465 | Pages: 480 | Size: 8.25" X 10.5" (Paperback)**

### Contents

Unit-1: Diversity in the Living World: 1. The Living World, 2. Biological Classification, 3. Plant Kingdom, 4. Animal Kingdom, Unit-2: Structural Organisation in Plants and Animals: 5. Morphology of Flowering Plant, 6. Anatomy of Flowering Plant, 7. Structural Organisation in Animals, Unit-3: Cell: Structure and Functions: 8. Cell: The Unit of Life, 9. Biomolecules, 10. Cell Cycle and Cell Division, Unit-4: Plant Physiology: 11. Transport in Plants, 12. Mineral Nutrition, 13. Photosynthesis, 14. Respiration in Plants,15. Plant Growth and Development, Unit-5: Human Physiology: 16. Digestion and Absorption, 17. Breathing and Exchange of Gases, 18. Body Fluids and their Circulation, 19. Excretory Products and Their Elimination, 20. Locomotion and Movement, 21. Neural Control and Coordination, 22. Chemical Coordination and Integration • *Practice Sets: 1 to 5* • *Test Papers: 1 to 5*

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## Biology for NEET Volume 2 (Objective Series)

### About the Book

*Biology for NEET* comprises a comprehensive set of question and answers based on current trends in the NEET. Strictly following the NCERT course/chapter structure, the book aims at preparing the students for competing in the medical entrance examinations in a better way. For convenience and to plan for the examinations effectively, questions have been arranged both chapter-wise and topic-wise, and explanation have been provided for answers. Further, to assess the students' level of preparation, Advanced Level Questions (ALQs) and Assertion-Reason Questions have been provided in each chapter. Also, the book has numerous previous years' questions to brush-up their knowledge.

### Key Features

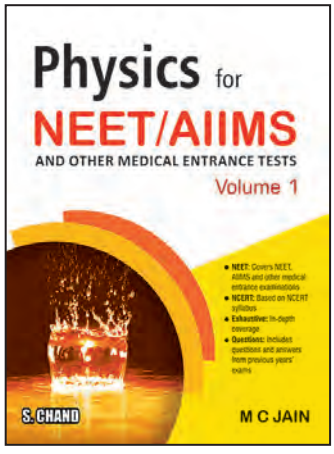
- Based on the latest pattern of the examinations.
- Questions arranged chapter-wise and topic-wise in an easy-to-understand manner.
- Advanced Level Questions (ALQs) and Assertion-Reason Questions have been provided in each chapter.
- Sufficient practice sets and test papers.
- Previous years' question papers included.

**ISBN: 9789352833795 | Code: 9789352833795 | Price: ₹ 355 | Pages: 352 | Size: 8.25" X 10.25" (Paperback)**

### Contents

Unit-1: Reproduction: 1. Reproduction in Organisms, 2. Sexual Reproduction in Flowering Plants, 3. Human Reproduction, 4. Reproductive Health, Unit-2: Genetics and Evolution: 5. Principle of Inheritance and Variation, 6. Molecular Basis of Inheritance, 7. Evolution, Unit-3: Biology in Human Welfare: 8. Human Health and Disease, 9. Strategies for Enhancement in Food Production, 10. Microbes in Human Welfare, Unit-4: Biotechnology: 12. Biotechnology: Principles and Processes, 13. Applications of Biotechnology, Unit 5: Ecology: 14. Organism and Population, 15. Ecosystem, 16. Biodiversity and Conservation, 17. Environmental Issues • *Practice Sets: 1 to 5* • *Test Papers: 1 to 5*

Environmental Association.




## Physics for NEET/AIIMS Volume 1

M C Jain

### About the Book

*Physics for NEET Volume I* has been written in a simplistic style which helps the student to not only study by themselves but also accrue confidence of knowing concepts by solving numerous MCQs which are aptly placed based on the level of difficulty.

The book covers topics which are normally part of Class XI syllabus and are replete with Illustrations and previous years' questions. Test papers also add to the practice quotient of the book and with solutions to almost all questions, the book provides a complete practice-based atmosphere for the student to revel in.

### Salient Features

- Simple theory which aids conceptual understanding of topics
- Illustrative examples to support the theory provided
- Close to 700 examples and figures followed by over 4000 MCQs and Assertion-Reason Questions

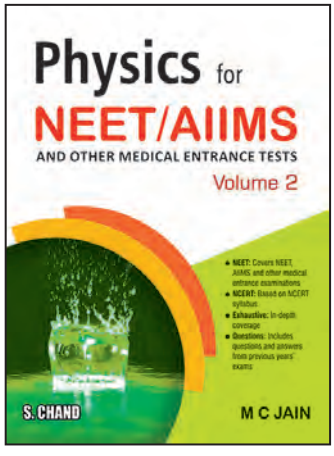
**ISBN: 9789352531905 | Code: 9789352531905 | Price: ₹ 660 | Pages: 724 | Size: 8.25" X 10.5" (Paperback)**

### Contents

1. Measurement: Units, Dimensions and Errors, 2. Scalars and Vectors, 3. Motion in a Straight Line, 4. Motion in a Plane-I: Projectile Motion, 5. Forces and Newton's Laws of Motion, 6. Motion in a Plane-II: Circular Motion, 7. Work, Energy and Power, 8. Conservation of Momentum, Centre of Mass, Collisions, 9. Rotational Motion, 10. Gravitation, 11. Simple Harmonic Motion, 12. Elasticity, 13. Fluid Statics, 14. Flow of Ideal Fluids, 15. Viscosity, 16. Surface Tension, 17. Thermal Expansion, Gas Laws and Kinetic Theory of Gases, Thermometry, 18. Heat, Work and Laws of Thermodynamics, 19. Modes of Heat Transfer, 20. Waves, 21. Superposition of Waves • *Self Assessment Test – 1* • *Self Assessment Test – 2*

**Mahesh C Jain** is Former Associate Professor, Department of Physics, Hindu College, University of Delhi.

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## Physics for NEET/AIIMS Volume 2

M C Jain

### About the Book

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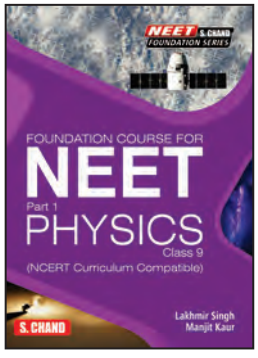
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**Mahesh C Jain** is Former Associate Professor, Department of Physics, Hindu College, University of Delhi.

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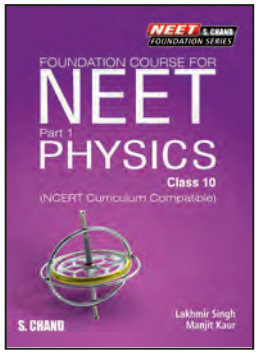
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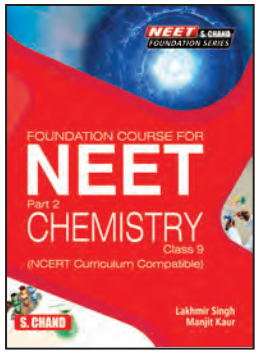
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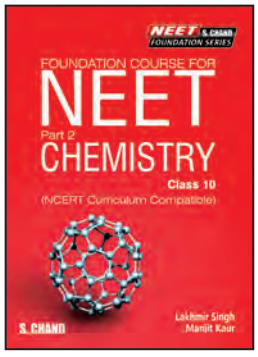
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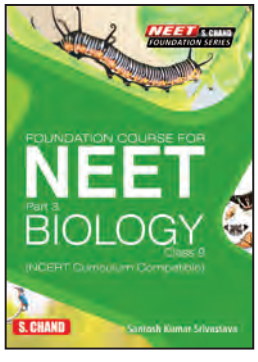
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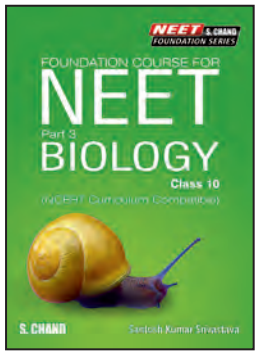
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Santosh Kumar Srivastava

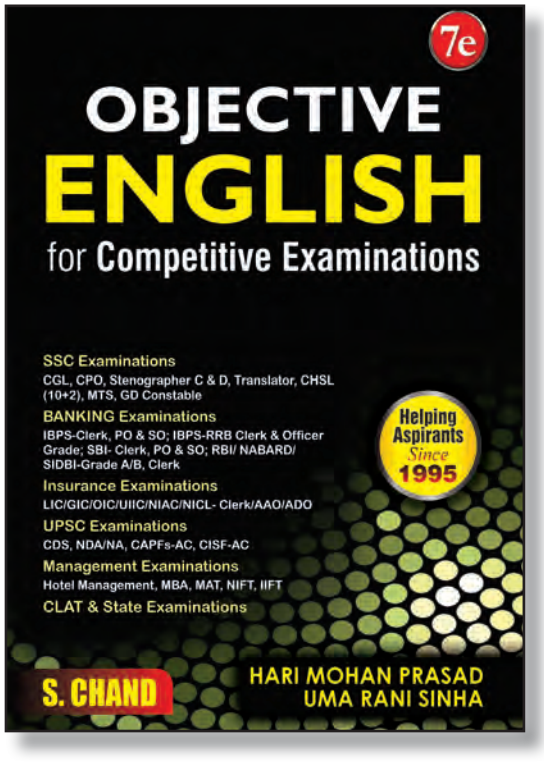
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- Answers to all in-chapter and end-of-chapter questions of NCERT text
- A useful appendix on "Wildlife Conservation in India"

### Contents

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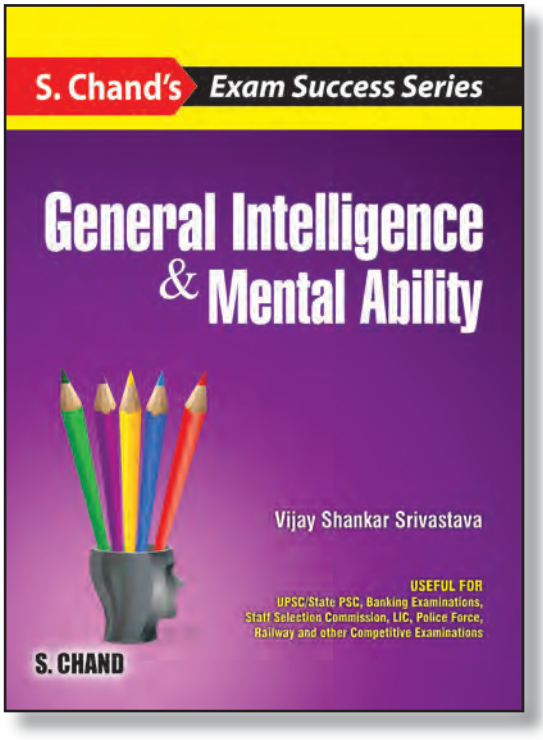
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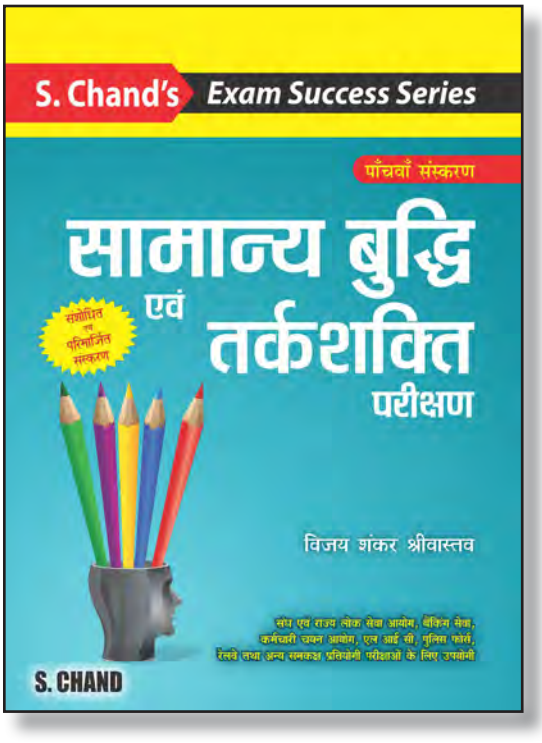
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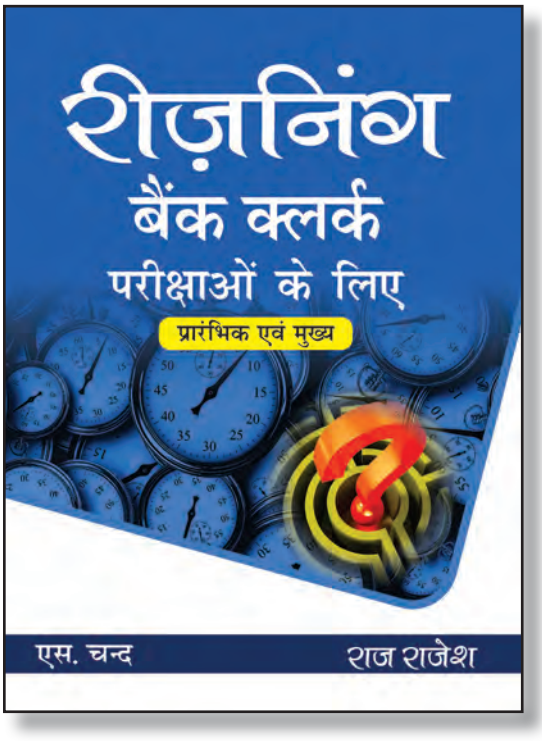
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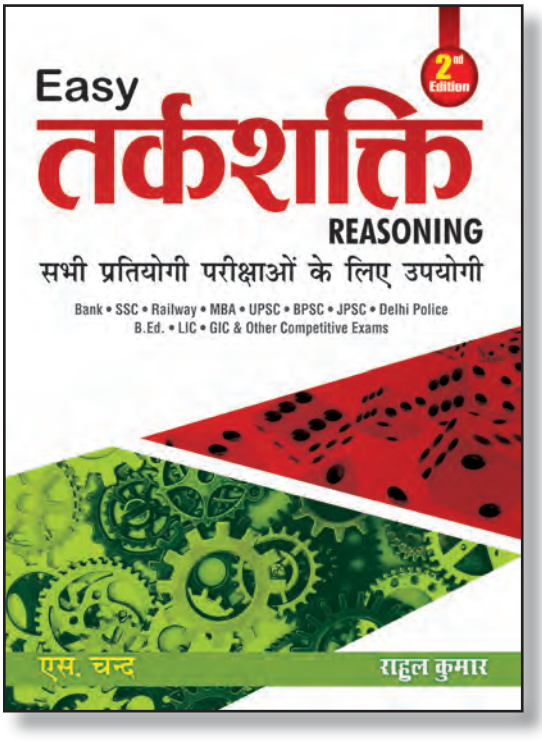
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### पुस्तक के विषय में

**'Easy** तर्कशक्ति' पुस्तक पूर्ण रूप से नवीनतम पाठ्यक्रम पर आधारित है। वर्तमान में तर्कशक्ति से सम्बंधित प्रश्नों का महत्व बैंक, एसएससी, रेलवे, एयरफोर्स, बीपीएससी, मैनेजमेंट, बीएड आदि जैसी प्रतियोगी परीक्षाओं में बढ़ता जा रहा है। इस पुस्तक को विगत 15 वर्षों के विभिन्न प्रतियोगी परीक्षाओं में पूछे जाने वाले प्रश्नों को ध्यान में रखकर तैयार किया गया है।

प्रस्तुत पुस्तक की तीन खण्डों क्रमशः A, B और C में विभाजित किया गया है। पुस्तक के सभी खण्डों में विषयवार सम्बंधित अध्यायों में नियमों, उपनियमों एवं अपवादों को सरल भाषा में प्रस्तुत किया गया है। जिसे विद्यार्थी बिना किसी सहयोग के भी समझ सकते हैं। परीक्षा के नवीनतम ट्रेंड के अनुसार पुस्तक के सभी खण्डों में कठिन प्रश्नों का भी समावेशन किया गया है, जो इसे किताबों से विशेष बनाता है। प्रस्तुत पुस्तक प्रतियोगी परीक्षाओं की तैयारी कर रहे अभ्यर्थीयों को परिज्ञान, अभ्यास और प्रखरता अर्जन का अद्भुत अवसर उपलब्ध कराती है।

### प्रमुख आकर्षण

- पुस्तक के सभी खण्डों से सम्बंधित विषयवार अध्यायों में नियमों, उपनियमों एवं अपवादों का सरल भाषा में प्रस्तुतीकरण।
- सभी खण्डों में परिभाषाओं का सुबोध भाषा में प्रस्तुतीकरण।
- प्रत्येक विषयवार प्रश्नों का क्रमानुसार विभक्तिकरण।
- परीक्षा के नवीनतम ट्रेंड के अनुसार पुस्तक के सभी खण्डों में कठिन प्रश्नों का भी समावेशन।
- प्रतियोगी परीक्षाओं की मूल आवश्यकताओं के अनुरूप पाठ्य-सामग्री का संकलन।

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## पुस्तक के विषय में

प्रस्तुत पुस्तक 3-इन-1 स्टडी गाइड, नवीनतम ट्रेंड्स और पैटर्न पर आधारित है। यह पुस्तक जवाहर नवोदय विद्यालय प्रवेश परीक्षा के छात्रों की तैयारी के लिए एक बेहतरीन विकल्प होगी। "स्टडी गाइड" में सम्पूर्ण पाठ्यक्रम को 3 खंडोंख्र मानसिक योग्यता परीक्षण, अंकगणित परीक्षण और भाषा परीक्षण में विभाजित किया गया है। प्रत्येक अध्याय में दिए गए विस्तृत हल, विद्यार्थियों की विषय पर पकड़ को मजबूत बनायेंगे। इस पुस्तक में 5 अभ्यास सेट एवं 6 पिछले वर्षों के हल सहित प्रश्नपत्र शामिल किये गये हैं। ये प्रैक्टिस सेट विद्यार्थियों को अच्छे अंक प्राप्त करने में सहायक सिद्ध होंगे।

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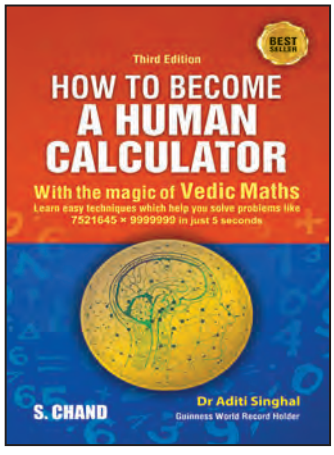
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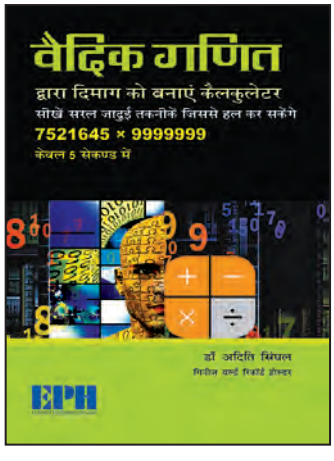
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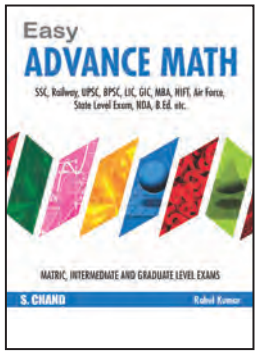
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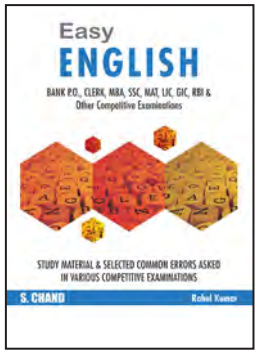
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5. बहुभुज 6. क्षेत्रमिति, 7. श्रेढी, 8. नियामक ज्यामिति




## Easy English

Rahul Kumar

**ISBN: 9789353388911**
**Code: 1006000230**
**Price: ₹ 355 | Pages: 356**
**Size: 8.5" X 11" (Paperback)**

### पुस्तक के विषय में

यह पुस्तक मेंल म्दहसपी विभिन्न प्रतियोगी परीक्षाओं में अंग्रेजी से पूछे गए प्रश्नों के आधार पर अध्यायवार तैयार की गई है। इसमें तथ्यों का संकलन अभ्यथियों के लिए बहुत ही उपयोगी है। इसे अत्यधिक लाभप्रद एवं उपयोगी बनाने के लिए प्रत्येक अध्याय में अधिक-से-अधिक विषयवस्तु एवं जानकारियों का समावेश परीक्षाथियों के मद्देनजर की गई है। च्तवदवनद को दो भागों में लिखा गया है। च्तवदवनद प्दजतवकनबजपवद एवं न्म वि च्तवदवनद ऐसे कई सारे ज्मेजए म्मंडैमज एवं म्मतबपेम इस पुस्तक में ब्वदबमचज के साथ-साथ च्तंबजपबम पर भी पूरा ध्यान दिया गया है क्योंकि More than Practice, must be prefect.

यह पुस्तक इसलिए खास महत्व रखता है कि इसमें Practice Test, Exercise Question-set नाम से कई Practice दिए गए है जिसका Explanation भी खास है जो विद्यार्थियों के लिए म्मंउ में महत्त्वपूर्ण भूमिका निभाएगा।

**Useful for below Competition Examinations**

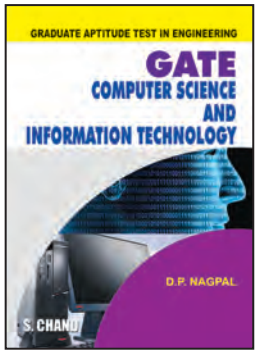
**SSC** : Combined Graduate Level (CGL), Lower Divisional Clerk (LDC), Food Corporation of India (FCI), Multi Tasking Staff (MTS), IB, CPO, CRPF, CPF, CBI etc.

**RAILWAY** : ASM, Goods Guards, CA, TA, Loco Pilot, ECRC, CC, TC, RPF etc.

**OTHERS** : UPSC, BPSC, LIC, GIC, MBA, NIFT, Air Force, State Level Exam, Delhi Police, NDA, B.Ed. etc.

### Contents

1. Syntax, 2. Noun, Case, Gender, Number, 3. Adjective, • Pronoun Introduction, • Relative Pronoun, 4. Degrees Of Adjectives, 5. Preposition, • Phrasal Verbs, 6. Uses Of Pronoun, 7. Articles, 8. Comprehension, • Antonym-Synonym, 9. Verbs, • Voice, 10. Cloze Test, 11. Mood, • Sentences Arrangement, 12. Tense, 13. Participle, • Gerunds, • Infinitive, • Wrongly Spelt, 14. Adverb, 15. Conjunctions, 16. Narration, 17. Phrase, 18. Single Word Substitution, 19. Model Test




## GATE Computer Science and Information Technology

D P Nagpal **POD**

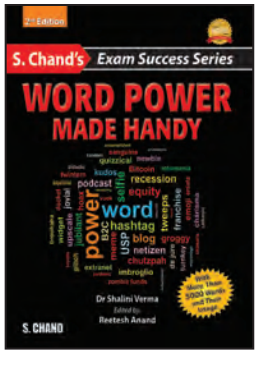
**ISBN: 9788121932110**
**Code: 1006B00171**
**Price: ₹ 1645 | Pages: 808**
**Size: 6.75" X 9.5" (Paperback)**

### About the Book

This book has been prepared to meet the requirements of students preparing for GATE examination in Computer Science & Engineering discipline as per the prescribed.

### Contents

Unit-I: Engineering Mathematics: 1. Engineering Mathematics, Unit-II: Theory of Computation: 2. Theory of Computation, Unit-III: Computer Hardware: 3. Digital Logic, 4. Number Representation and Computer Organization, Unit-IV: Software Systems: 5. Data Structures and Programming Methodology, 6. Compiler Design & Operating Systems, 7. Databases, 8. Computer Networks, 9. C Programming Languages , 10. Information Systems, 11. Software Engineering, 12. Web Technologies • Summative Assessment (Important Questions) • Previous Year's GATE Papers




## Word Power Made Handy, 2e

Dr. Shalini Verma & Reetesh Anand

**ISBN: 9789385676215**
**Code: 1006000231**
**Price: ₹ 480 | Pages: 472**
**Size: 6.75" X 9.5" (Paperback)**

### About the Book

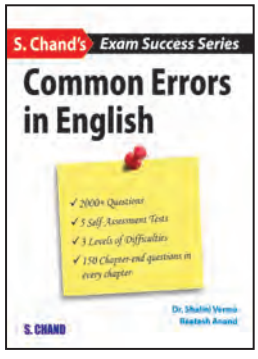
The revision comes 10 years after the first edition and completely overhauls the text not only in terms of look and feel but also content which is now contemporary while also being timeless. A large number of words are explained with the help of examples and their lineage which helps the reader understand their individual usage and the ways to use them on the correct occasion.

### Key Features

- More than 5000 words and their usage
- Pre-chapter information on "How to Use this Book" and "Word Formation"
- Seven dedicated chapters on confusing words and phrases

### Contents

Part-I: Domain Specific Words, Part-II: Some Confusing Words and Phrases in English Language, Part-III: More than 3500 High Frequency Words




## Common Errors in English

Shalini Verma & Reetesh Anand

**ISBN: 9789385676208**
**Code: 1006000230**
**Price: ₹ 330 | Pages: 432**
**Size: 8.5" X 11" (Paperback)**

### About the Book

A rapid-learning text on English, the book is written so that we avoid all pitfalls of the language.

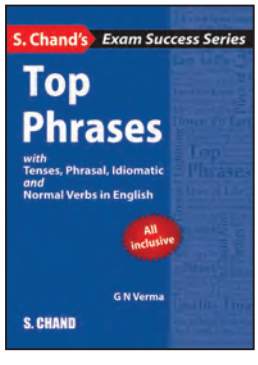
### Key Features

- 1500 Chapter-end questions divided equally among 10 chapters with varying levels of difficulty, i.e. Low-Medium-High
- 5 Self-Assessment Tests - 500 practice questions with explanatory answers

### Contents

Part-I: Common Errors in English: an Introduction, 1. Parts of Speech (Part-I), 2. Parts of Speech (Part-II), 3. Determiners, Quantifiers and Articles, 4. Tenses, 5. Syntax, 6. Idiomatic Expressions and Phrasal Verbs, 7. Some Confusing Words and Phrases, 8. Spelling Rules, 9. Punctuation and Capitalization, 10. Miscellaneous Errors in English Usage, Part-II: Self-Assessment Tests

**Shalini Verma** is PhD in Communications and Diploma in Training and Development, she has Masters Degrees in four areas — English Literature, Communications & Journalism, Human Rights and Business Administration. At present, she holds the position of Associate Professor & Area Chairperson— Business Communication, at Jaipuria Institute of Management, Noida.




## Top Phrases

G N Verma

**POD**

**ISBN: 9789352531943**
**Code: 1011001314**
**Price: ₹ 1095 | Pages: 1095**
**Size: 6.75" X 9.5" (Paperback)**

## About the Book

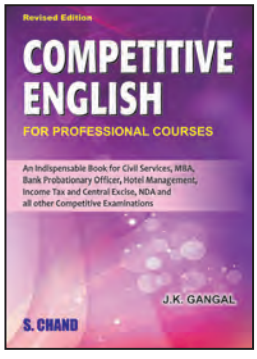
The book is divided into 7 parts to acutely display the practical usage of Tenses, Verbs and Phrases. For all aspirants of examinations which include English in the syllabus including but not limited to MBA (CAT), CDS, NDA, Banking, SSC, Railways, Hotel Management, NIFT Entrance and various Civil Services.

## Key Features

- Translation method used for easier understanding
- 3500+ Verbs' tabulated in three forms (in English and Hindi)
- 2500+ Phrases' meanings in English and Hindi followed with examples in both languages
- Close to 650 Idiomatic and Phrasal verbs' meanings in English and Hindi followed with examples in both languages
- More than 250 nouns and verbs which are followed by prepositions explained
- All Tenses explained in detail

## Contents

1. Tenses ( Present Tense, Past Tense & Future Tense), 2. Three Forms of Main Verbs, 3. Idiomatic and Phrasal Verb, 4. Phrases, 5. Some Nouns Followed by Preposition, 6. Particular Adjectives Followed by Preposition, 7. Particular Verbs Followed by Particular Preposition




# Competitive English (For Professional Courses)

J K Gangal

**ISBN: 9788121929349**
**Code:1006A00159**
**Price: ₹ 355 | Pages: 396**
**Size: 6.75" X 9.5" (Paperback)**

## About the Book

The book Competitive English for Professional Course is a complete reference and practice material for the students who is desirous of improving her /his ability to read and write English language effectively and creatively. This book provides substantial help in all such areas in English Language a candidate needs to prepare for civil services and other equivalent competition examinations. This book helps the students in mastering various verbal skills and acquiring rich vocabulary which is the soul of effective communication.

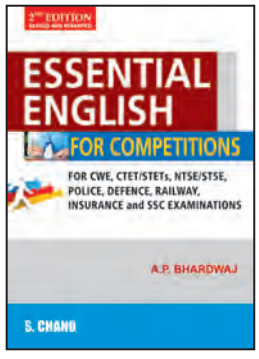
## Key Features

- Helping its users acquire good reading skills by developing their verbal abilities.
- Enabling them to write grammatically correct English- English which is usage-wise correct and acceptable to the native speakers in the 21st century.
- Highlighting all types of errors, frequently committed in writing by non- native speakers of English
- The book not only highlights these errors but also gives their correct forms, followed by the relevant grammatical rules in support to help its users avoid recurrence of those errors.
- The book, as the readers will find, is an excellent digest of English Grammar doing away with the need for studying a separate English grammar book on their part. It is like two-in-one on the subject. Each unit under this section of the book begins with the concept formation on the unit subject, followed by the most common errors committed by people in that area, along with their correct versions and necessary notes on the rules governing those corrections.
- At the end of each unit some exercises in the form of activities have also been given (along with the key) for practice, and to enable the users to check on their progress on their own.

## Contents

Section-A: Developing Verbal Skills (Vocabulary), Section-B: Developing Reading Skills, Section-C: Grammar and Usage, Section-D: Detecting Usage Errors (Common Errors & How to avoid them), Section-E: Developing Writing Skills, Section-F: Group Discussion & Personal Interview, Section-G: Effective Communication, Section-H: Final Encounter with Examination

**J K Gangal,** MA., M.Ed.,Splt in TESL (UK) ELT Specialist & Director, Centre for Creativity and Human Resource Development, Delhi.




# Essential English for Competitions, 2e

A P Bhardwaj

**POD**

**ISBN: 9788121935203**
**Code: 1006A00175**
**Price: ₹ POD | Pages: 552**
**Size: 6.75" X 9.5" (Paperback)**

## About the Book

This book is the gist of epistemology which any English language learner need to learn, understand, grasp and imbue. It is useful for IAS, PCS, HCS, HAS, RAS & CAT, MAT, SAT, CLAT, PO, AAO, NDA, CDS, GRE, IELTS, TOEFEL examinations.

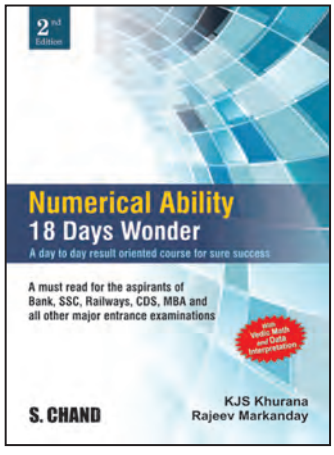
## Key Features

- Having gone through this book, in one entry, one gets acquainted with more than 50 words.
- The MCQs have been incorporated alphabetically arranged which enables the readers to check their level of competence after every alphabet.

## Contents

Section-A: The Thrill of Vocabulary Building: 1. Words-Meaning, Usage, Synonyms, Antonyms, Section-B: The Test of Vocabulary: 2. Synonyms MCQs with Answers, 3. Antonyms MCQs with Answers, 4. Idioms and Phrases & MCQs with Answers, 5. One Word Substitution & MCQs with Answers, 6. Spelling of Words with Rules, 7. A Rendezvous with the Specific Words, Section-C: The Elements of Grammar: 8. Parts of Speech, 9. Tenses, 10. Voice, 11. Change of Narration, 12. Use of Determiners, 13. Modals, 14. Use of Non – Finites

**A P Bhardwaj,** Director, 'Innovations' (An Institute of Advance Learning), Chandigarh.




## Numerical Ability 18 Days Wonder, 2e

K J S Khurana & R Markanday

### About the Book

A thoroughly revised text, *Numerical Ability 18 Days Wonder* has its foundation in a day to day approach to tackle various concepts. Lucid language which is coupled with detailing of concepts makes this book easy to follow for aspirants of all major examinations.

### Key Features

- New chapters on Vedic Mathematics and Data Interpretation
- Each concepts is explained in detail and examples and chapter-wise practice questions provided strengthen the concepts explained
- "Text Yourself" segment carries 650+ questions which add to conviction of the aspirants as they provide rigourous revision

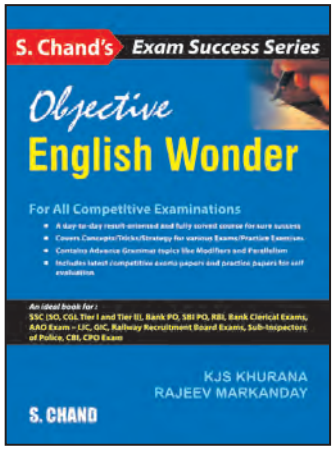
**ISBN: 9789352533190 | Code: 9789352533190 | Price: ₹ 475 | Pages: 432 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Day-1: Fundamentals, Day-2: Vedic Math, Day-3: The Number System, HCF and LCM, Day-4: Decimal Fraction, Day-5: Simplification, Day-6: Ratio, Proportion and Unitary, Day-7: Percentage, Day-8: Profit and Loss, Day-9: Time and Work, Day-10: Alligation (Mixture), Day-11: Average, Day-12: Partnership, Day-13: Simple Interest & Compound Interest, Day-14: Time and Distance, Day 15: Mensuration (2D), Day-16: Mensuration (3D), Day-17: Data Interpretation, Data Tables, Line Graphs, Day-18: Bar Graph, Pie Chart, Combination Graph • *Test Yourself*

**K J S Khurana** has worked in the teaching industry for more than twenty years. An MBA degree holder, he found his calling in the field of education and has co-authored various books on competitive exams.
**Rajeev Markanday** has worked in the education industry for more than twenty years. He has co-authored various books on competitive exams.

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## Objective English Wonder

K J S Khurana & R Markanday

### About the Book

An easy to follow book which align aspirants' needs to a day to day understanding and practice format.

This book is for all aspirants of examinations which include English in the syllabus including but not limited to MBA (CAT), CDS, NDA, Banking, SSC, Railways, Hotel Management, NIFT Entrance and various Civil Services.

### Key Features

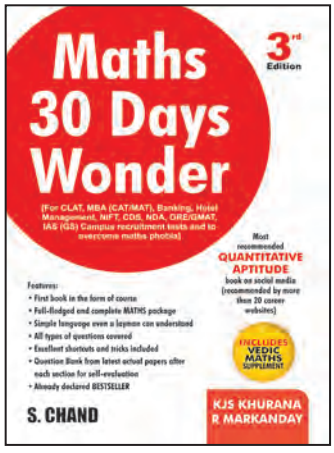
- A day-to-day result-oriented and fully solved course for sure success
- Coverage of Concepts/Tricks/Strategy for various Exams/Practice Exercises
- Contains Advance Grammar topics like Modifiers and Parallelism
- 12 Practice Sets +15 Real Examination Sets (With Answers and Explanations)

**ISBN: 9789352533152 | Code: 9789352533152 | Price: ₹ 360 | Pages: 512 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Vocabulary Building, 3. Nouns, 4. Pronouns, 5. Adjective, 6. Verbs & Tenses, 7. Adverbs, 8. Conjunctions, 9. Articles, 10. Prepositions, 11. Modifiers and Parallelism, 12. Common – Errors, 13. Sentence Rearrangement, 14. Reading Comprehension, 15. Fill in the Blanks, 16. Idioms and Phrases (I), 17. Idioms and Phrases (II), 18. Active and Passive Voice, Direct and Indirect Speech • *Evaluation • Latest Papers: SSC, Malwa Gramn Bank, ICFAI, MAT, IRMA, SBI Clerical, IBPS PO • Practice Papers 1–12 • Actual IBPS RRB Office Assistant Exam. • Actual IBPS RRB Clerk Prelim • IBPS Prelims(I) • IBPS PO Prelim • IBPS Main PO • SBI Clerical Online • SSC CGL Tier-I*

**K J S Khurana** has worked in the teaching industry for more than twenty years. An MBA degree holder, he found his calling in the field of education and has co-authored various books on competitive exams.
**Rajeev Markanday** has worked in the education industry for more than twenty years. He has co-authored various books on competitive exams.




## Maths 30 Days Wonder 3e

K J S Khurana & R Markanday

### About the Book

The Author immense pleasure to present the third edition of Maths 30 Days Wonder. Quantitative Aptitude has been an important part of every entrance examination. Therefore Author felt that it was necessary to explain, otherwise thought as difficult, topics in a simple and lucid manner.

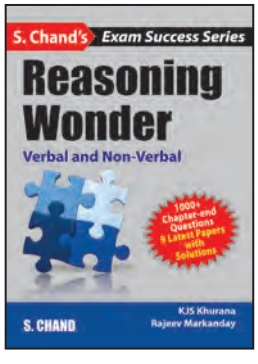
### Revision and salient features include:

1. Vedic Maths supplement (for fast calculations and understanding of advance concepts)
2. Each concept is explained in detail and examples and chapter-wise practice questions provided, strengthen the concepts explained.
3. "Test Yourself" segment carries questions from latest competitive exams which add to the conviction of the aspirant as they provide rigorous revision.
4. Language of the book is again so simple that even a layman can understand it.

**ISBN: 9789352837557 | Code: 9789352837557 | Price: ₹ 550 | Pages: 632 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Section-I (Arithmetic-I): 1. Introduction and Concepts, 2. Decimal Fraction, 3. Simplification, 4. The Number System & Concepts of Divisibility, 5. HCF and LCM, 6. Percentage, 7. Profit and Loss–I, 8. Profit and Loss–II • *Test yourself (Section-I)*, Section-II (Arithmetic-II): 9. Time and Distance, 10. Average, 11. Partnership, 12. Ratio and Proportion and Unitary, 13. Time and Work, 14. Alligation or Mixture, 15. Simple Interest, 16. Compound Interest • *Test yourself (Section-II)*, Section-III (Mensuration and Geometry): 17. Mensuration (2D), 18. Mensuration (3D), 19. Geometry-I, 20. Geometry-II • *Test yourself (Section-III)*, Section-IV (Algebra): 21. Factorization, Remainder Theorem and Conditional Identities, 22. Linear and Quadratic Equation, 23. Indices and Surds, 24. Sets • *Test yourself (Section-IV)*, Section-V (Advanced Maths): 25. Trigonometry-I, 26. Trigonometry-II, 27. Combination and Permutation, 28. Probability, 29. Sequences and Series, 30. Statistics • *Test yourself (Section-V)* • *Vedic Maths Supplement*




## Reasoning Wonder (Verbal and Non-Verbal)

K J S Khurana & R Markanday

**ISBN: 9789385676178**
**Code: 1006000227**
**Price: ₹ 330 | Pages: 312**
**Size: 6.75" X 9.5" (Paperback)**

### About the Book

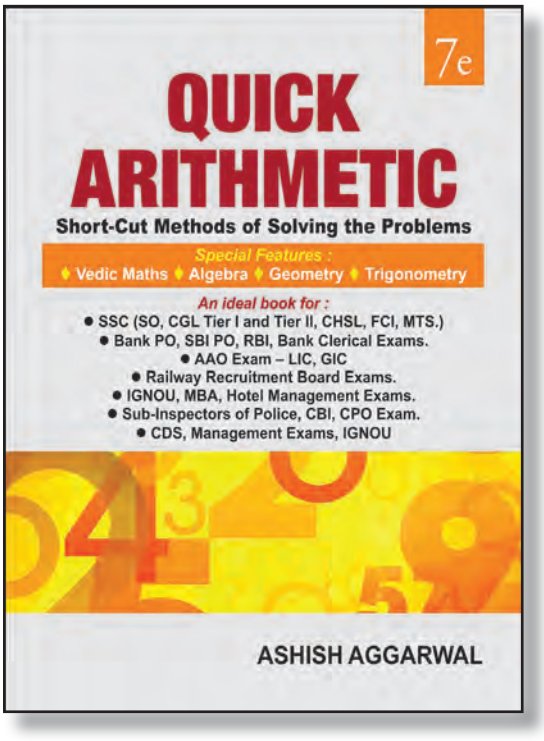
A rapid-learning text on Reasoning, the book succinctly deals with both its aspects, i.e. Verbal and Non-Verbal reasoning.

### Key Features

- More than 1000 questions with Solutions
- 9 Solved Papers ranging from SSC Clerk, SBI PO, IBPS SO, GIC - I, FCI and the like

### Contents

1. Coding Decoding and Series, 2. Blood Relation and Direction Sense, 3. Analogies and Classification, 4. Input- Output, 5. Analytical Reasoning–I, 6. Analytical Reasoning–II, 7. Syllogism and Logical Consistency, 8. Verbal Reasoning, 9. Logical Sequence of Words Verification of Truth, 10. Symb-Operation, 11. Non-Verbal Reasoning–I, 12. Non-Verbal Reasoning–II • Papers 1—9




# QUICK ARITHMETIC, 7/e

Ashish Aggarwal

## About the Book

The book is designed for all the students who are preparing for competitive examinations conducted by SSC, RRB, Banks, LIC/GIC and IGNOU. This edition of Quick Arithmetic has been thoroughly revised and enlarged explain the short-cut methods for solving sums in a faster way. It covers basic terms and short-cut methods along with all the major topics such as Ratio and Proportion, Percentage, Profit and Loss, and Mensuration. The book strictly covers the syllabus of various examinations.

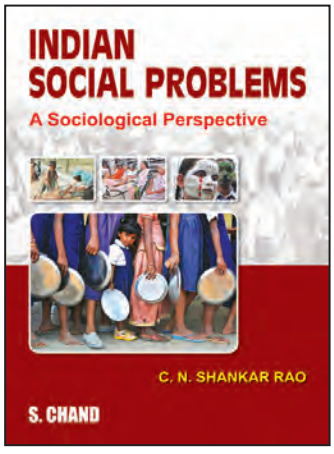
## Key Features

- Written strictly as per the new syllabi of various exams. Including SSC CGL Tier I and Tier II Exams
- Each chapter starts with important rules and formulae followed by fully solved examples
- Contains solved previous year question papers of popular examinations
- Inclusion of same important topics such as Vedic Maths, Geometry and Trigonometry makes this book apt for various competitive examinations
- New and improved short-cut methods with tricks of solving problems in almost no time.
- Rated Five Stars by most readers

**ISBN: 9789352531950 | Code: 9789352531950 | Price: ₹ 495 | Pages: 952 | Size: 8.25" X 10.5" (Paperback**

## Contents

1. Number System
2. Fractions and Decimals
3. Divisibility Test and Remainder Rules
4. Multiplication and Division of Numbers — Vedic Methods
5. HCF and LCM
6. Square and Cube — Vedic Maths
7. Square Root and Cube Root
8. Series
9. Linear Equations
10. Algebra
11. Powers and Roots
12. Ratio, Proportion and Partnership
13. Problems on Ages
14. Percentage
15. Discount
16. Profit and Loss
17. Stock and Shares
18. Average
19. Allegation
20. Simple Interest
21. Compound Interest
22. Relation between C.I. and S.I.
23. True Discount and Banker Discount
24. Time and Work
25. Time and Distance
26. Boats and Streams
27. Clock and Calendar
28. Log and Antilog
29. Mensuration — Two Dimensional
30. Geometry
31. Mensuration — Three Dimensional
32. Trigonometry
33. Coordinate Geometry
34. Permutations and Combinations
35. Data Interpretation
36. Solved SSC Papers (2009-2015)




## Indian Social Problems

C N Shankar Rao

### About the Book

This book entitled *'Indian Social Problems: A Sociological Perspective'* provides a glimpse of many social problems that have been haunting the Indian society since years, decades, and even centuries.

Though India is fast developing, it has lots of regional, cultural, linguistic and religious diversities. These diversities are also reflected in its social problems. This book covers social problems which are general in nature and common to the whole nation such as population problem, poverty, unemployment, child labour, urbanization, youth unrest, problems of the aged, family disorganization, corruption, crime and delinquency, etc.

This book is prepared mainly to cater to the needs of the undergraduate and postgraduate students. Most of the universities in India have prescribed one paper on ';Indian Social Problems' either at the undergraduate or postgraduate level. The book also covers topics that are included in the syllabi of IAS, NET, SLET, KAS and other national- and state-level competitive examinations. It also contains lessons that form part of MBA, nursing and five-year law courses. Such students and examinees will definitely find the book highly helpful.

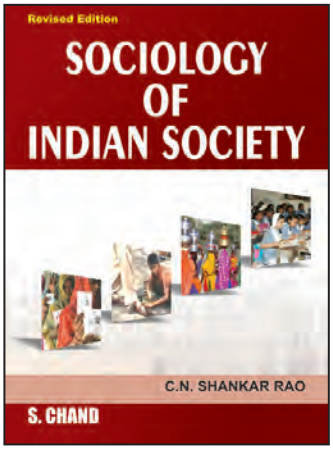
**ISBN: 9789384857950 | Code: 1018000053 | Price: ₹ 845 | Pages: 664 | Size: 6.75" X 9.5" (Paperback)**

### Contents

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C N Shankar Rao, Canara Pre-University College, Mangalore.

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## Sociology of Indian Society

C N Shankar Rao

### About the Book

The revision comes 10 years after the first edition and completely overhauls the text not only in terms of look and feel but also content which is now contemporary while also being timeless. A large number of words are explained with the help of examples and their lineage which helps the reader understand their individual usage and the ways to use them on the correct occasion.

### Key Features

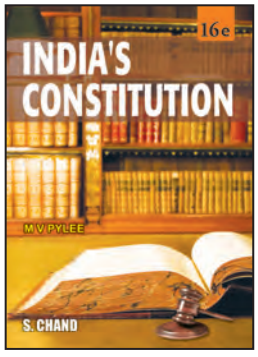
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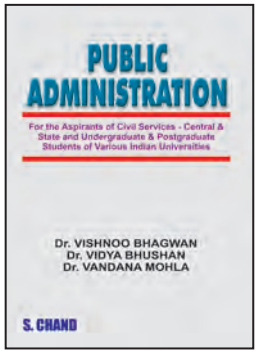
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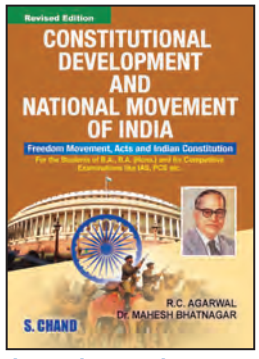
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- The style is lucid.
- Facts have not been sacrificed at the altar of verbosity.
- Perfunctory details have been avoided.




## Constitutional Development & National Movement in India

R C Agarwal & Mahesh Bhatnagar

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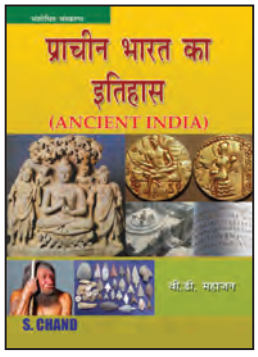
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### विषय-सूची

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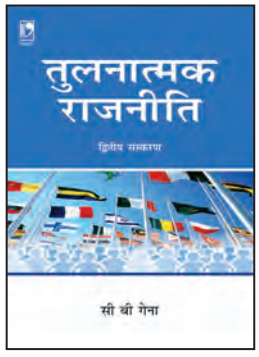
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- सांस्कृतिक, राजनैतिक, सामाजिक एवं आर्थिक विकास का विवरणविषय-सूची

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## तुलनात्मक राजनीति द्वितीय संस्करण

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### प्रमुख विशेषताएँ

- छः नए अध्याय जोड़े गए हैं !
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- बी. ए. (ऑनर्स) तथा एम. ए. के विद्यार्थियों के लिए उपयोगी !

सी. बी. गेना, राजनीति-विभाग राजस्थान विश्वविद्यालय, जयपुर।




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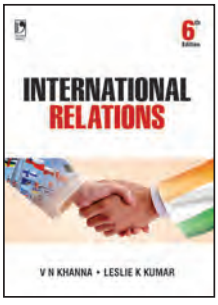
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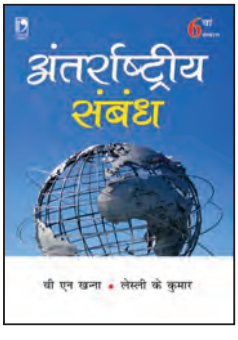

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- कुछ ऐतिहासिक घटनाएं – जैसे खाड़ी युद्ध – भी सम्मिलित की गई हैं।

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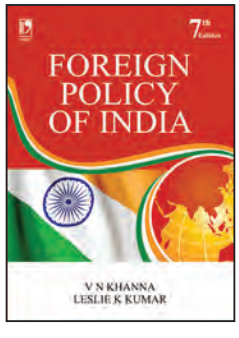
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वी एन खन्ना दिल्ली विश्वविद्यालय के देशबंधु कॉलेज में राजनीति विभाग के वरिष्ठ रीडर थे। चार दशकों से अधिक के लंबे सेवाकाल में उन्होंने कॉलेज एवं विश्वविद्यालय में विभिन्न स्तरों पर अध्यापन कार्य करने के साथ-साथ छात्र-छात्राओं की विकास गतिविधियों में भी महत्वपूर्ण भूमिका निभाई। वे कुछ समय अपने कॉलेज के प्राचार्य भी रहे तथा लंबे समय तक विश्वविद्यालय के सहकारी अध्यापन कार्य में भाग लेते रहे। वे सन् 2000 में सेवानिवृत्त हुए।

प्रो. खन्ना भारत के राजनीति विज्ञान संघ के आजीवन सदस्य तथा अंतर्राष्ट्रीय राजनीति विज्ञान संघ के सदस्य हैं। अनेक शिक्षण संस्थाओं से उनके संबंध हैं तथा उनमें उनकी सक्रिय भागीदारी रहती है। उनकी मुख्य रुचि तुलनात्मक राजनीति तथा अंतर्राष्ट्रीय संबंध में है। उन्होंने अनेक पुस्तकों की रचना की है तथा विभिन्न कार्यशालाओं, गोष्ठियों और सम्मेलनों में भाग लिया है।

लेस्ली के कुमार लेडी श्री राम कॉलेज, दिल्ली विश्वविद्यालय में सहायक प्रोफेसर हैं। उन्होंने 2011 से कई पाठ्यक्रम जैसे भारत की विदेश नीति, दक्षिण एशिया की राजनीति, अंतर्राष्ट्रीय संबंध, भू-राजनीति, राजनीतिक सिद्धांत, पारम्परिक एंवम आधुनिक राजनीतिक दर्शनशास्त्र पढाये हैं। उनकी मुख्य रूचि अंतर्राष्ट्रीय संबंध शिक्षा, दक्षिण एशिया, शिक्षा में कट्टरता, क्षेत्रियता एंवम राजनीति, कृत्रिम बुद्धिमत्ता की नीति में है। लेस्ली ने भारत व विदेश में विशेष व्याख्यान दिये हैं। लोयोला कॉलेज, चेन्नई और जवाहरलाल नेहरू विश्वविद्यालय, नई दिल्ली के छात्र रह चुके लेस्ली ने प्रसिद्ध राष्ट्रीय व अंतर्राष्ट्रीय पत्रिकाओं में शोधपत्र का योगदान दिया है।



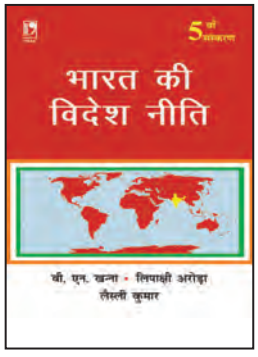

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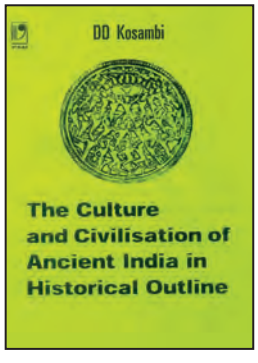
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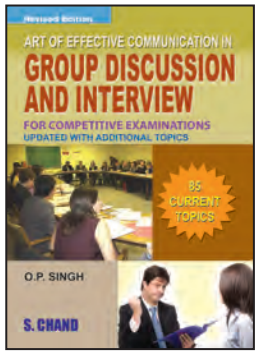
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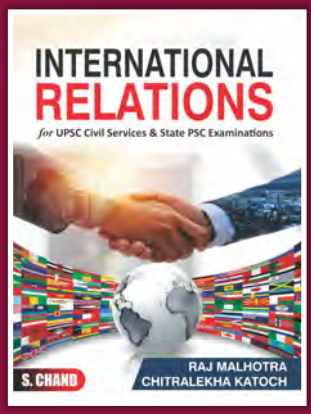
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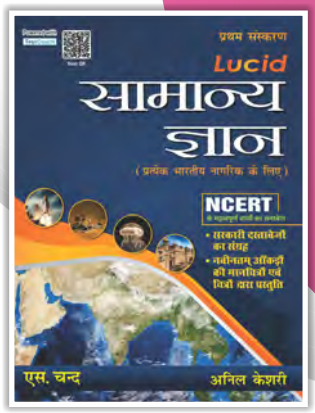


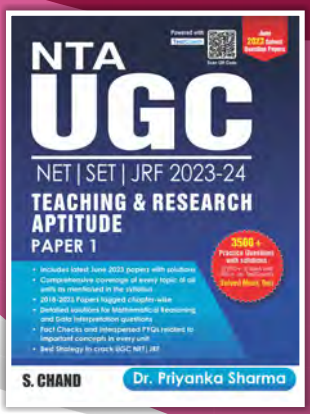


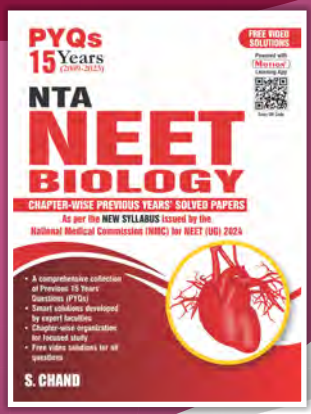


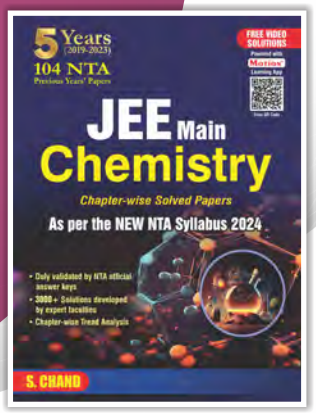








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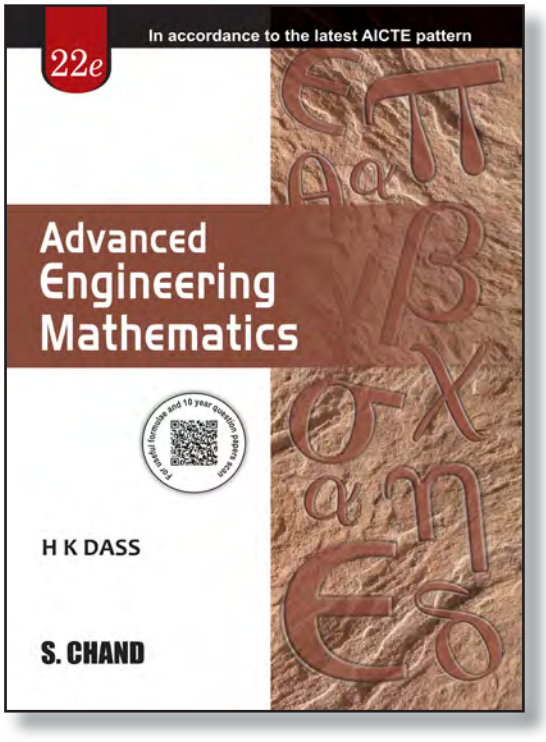
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H K Dass

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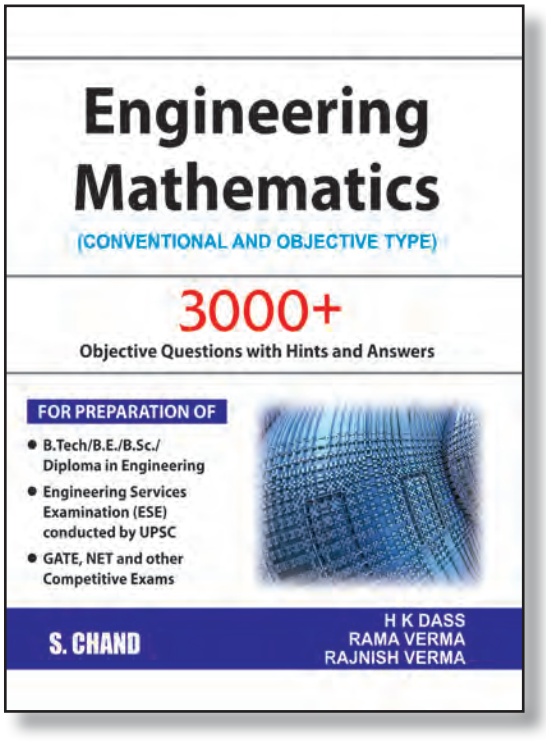
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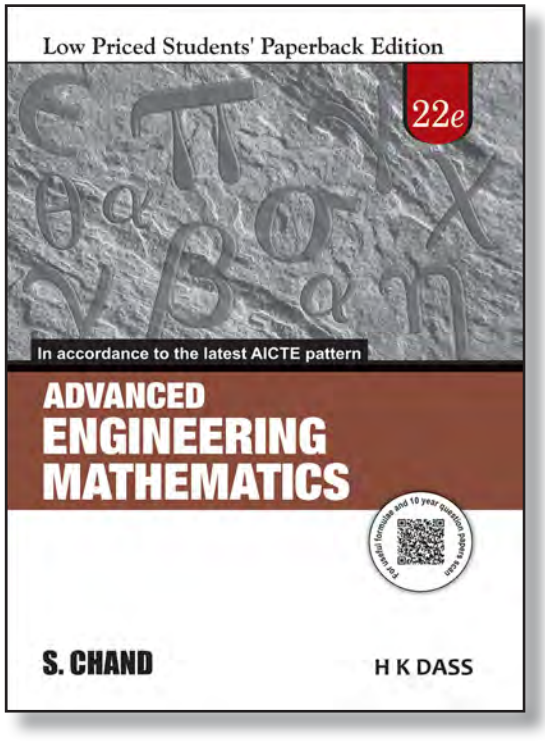
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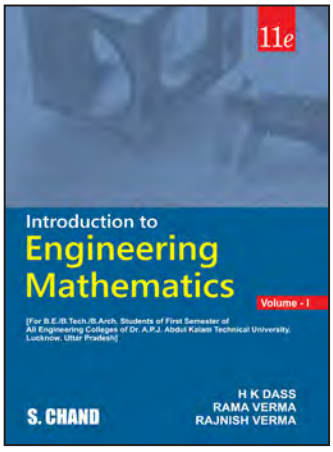
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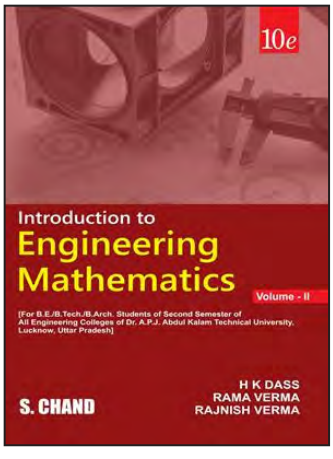
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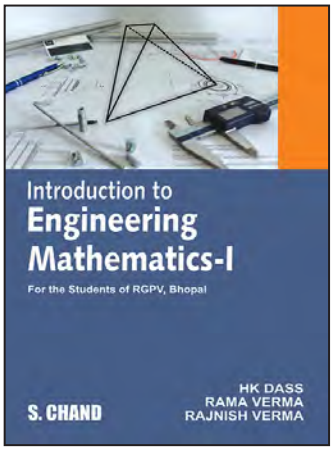
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New

H K Dass, Rama Verma & Rajnish Verma

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Conceptualized specifically for Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, "Introduction to Engineering Mathematics - Volume I" covers important topics such as Mean Value Theorems, Maclaurin and Taylor Series, Partial Differentiation, Beta, Gamma Functions and Properties, Double Integrals, Area and Volume by Double integration, Triple Integration and Applications, Convergence of Sequence and Series, Fourier Series, Vector Spaces and Sub Spaces, Liner Transformations, Rank of Matrix, and Eigen Values and Eigen Vectors for sound conceptual understanding for students.

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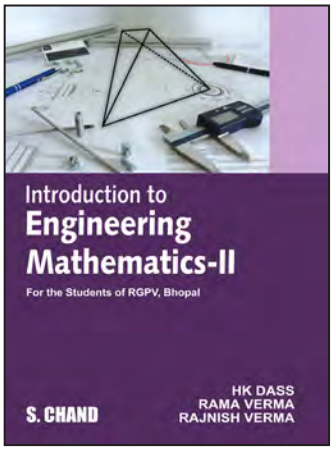
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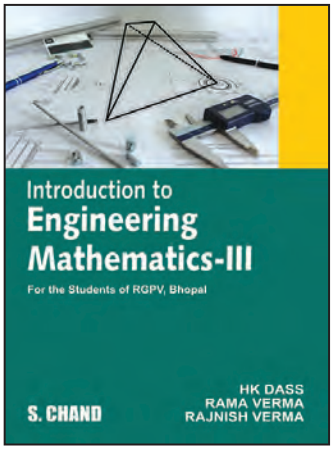
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MODULE 1: Ordinary Differential Equations I, 1. Differential Equations of First Order, 2. Higher Order Differential Equations with Constant Coefficients, 3. Simultaneous Differential Equations, MODULE 2: Ordinary Differential Equations II, 4. Second Order Linear Differential Equations with Variable Coefficients, 5. Method of Variation of Parameters, 6. Power Series Solutions, 7. Legendre Polynomials, 8. Bessel Functions, MODULE 3: Partial Differential Equations, 9. Linear Partial Differential Equations, 10. Non Linear Partial Differential Equations, 11. Homogeneous Linear Partial Differential Equations with Constant Coefficients, MODULE 4: Functions of Complex Variable, 12. Functions of Complex Variable, 13. Complex Integration, 14. The Calculus of Residues, MODULE 5: Vector Calculus, 15. Differentiation of Vectors, 16. Integration of Vectors




## Introduction to Engineering Mathematics-III: For the students of (RGPV), Bhopal

New

H K Dass, Rama Verma & Rajnish Verma

### About the Book

Conceptualized specifically for Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, "Introduction to Engineering Mathematics – Volume III" covers important topics such as Solution of Polynomial and Transcendental Equations, Finite Differences, Interpolation: Newton's Forward and Backward Difference Formulae, Numerical Differentiation and Integration (Trapezoidal rule and Simpson's 1/3 and 3/8 Rules), Ordinary and Partial Differential Equations, Laplace and Inverse Laplace Transform and Properties, Fourier Transforms, PMF and PDF, Binomial, Poisson, and Normal Distribution for sound conceptual understanding for students.

### Key Features

- More than 400 examples for easy understanding of concepts
- More than 700 exercise questions strengthen the well-explained theoretical concepts
- Useful results and the formulae are explained in brief within each chapter.

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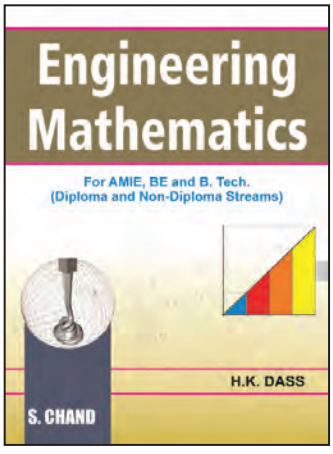
### Contents

MODULE 1: Numerical Methods 1, 1. Solution of Polynomial and Transcendental Equations, 2. Finite Differences, 3. Interpolation: Newton's Forward and Backward Difference Formulae, 4. Interpolation with Unequal Intervals: Newton's Divided Difference and Lagrange's Formulae, MODULE 2: Numerical Methods 2, 5. Numerical Differentiation, 6. Numerical Integration: Trapezoidal rule and Simpson's 1/3 and 3/8 Rules, 7. Solution of Simultaneous Linear Algebraic Equations, MODULE 3: Numerical Methods 3, 8. Ordinary Differential Equations, 9. Partial Differential Equations, MODULE 4: Transform Calculus, 10. Laplace Transform and Properties, 11. Inverse Laplace Transform and Properties, 12. Solving Ordinary Differential Equations by Laplace Method, 13. Fourier Transforms, MODULE 5: Concept of Probability, 14. PMF and PDF, MODULE 6: Discrete Distribution, 15. Binomial Distribution

16. Poisson Distribution, 17. Normal Distribution

**H K Dass** is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England).He is also the winner of Secular India Award – 1998.
**Dr. Rama Verma** M.Sc. (Gold Medalist), Ph.D., Associate Professor, Mata Sundri College

**Rajnish Dass** Ph.D.(P), Fellow IETE, MBA, B.E. Electronics Engineering DCE / DTU, Consultant (Retd.) - TCS Ltd., Ex. DGM - CMC Ltd




## Engineering Mathematics, 14e

New

H K Dass

### About the Book

*"Engineering Mathematics"* is written primarily for the students of AMIE but is tailor-made for other engineering courses as well.

Filled with examples and in-text exercises, the text successfully helps the student not only comprehend but practice and retain the understanding of otherwise difficult concepts. A book which has seen, foreseen and incorporated changes in the subject for close to 30 years, it continues to be one of the most sought after texts by the students.

### Salient Features

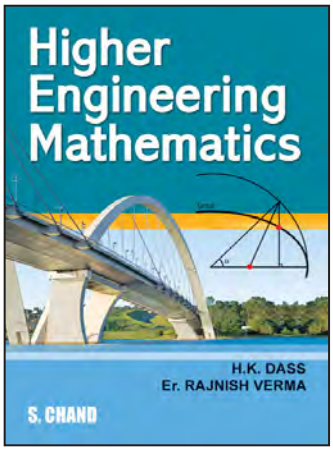
- Every topic relating to the subject has been provided with ample coverage.
- Close to 1000 solved examples (including previous year questions of different universities) on various topics have been incorporated for the better understanding and to make familiar with the standard and trend of questions set in the examinations.
- More than 2500 in-text exercise questions and book-end solved question papers provide apt practice of all concepts explained.

**ISBN: 9788121905022 | Code: 1010B00071 | Pages: 1,088 | Size: 6.5" X 9.25" (Paperback) | POD**

### Contents

1. Limits and Continuity, 2. Ordinary Differentiation, 3. Tangents and Normals, 4. Maxima and Minima, 5. Expansion of Functions, 6. Indeterminate Forms, 7. Asymptotes, 8. Radius of Curvature, 9. General Theorems, 10. Partial Differentiation, 11. Total Differentiation, 12. Applications of Differential Calculus, 13. Co-ordinates and Direction Cosines, 14. Plane, 15. Straight Line, 16. Sphere, 17. Cylinder, 18. Cone, 19. Matrices, 20. Vector Algebra, 21. Integration, 22. Integration by the Method of Substitution, 23. Integration by Parts, 24. Integration by Partial Fraction Method, 25. Integration of Irrational Functions, 26. Integration of Trigonometrical Functions, 27. Reduction Formulae, 28. Definite Integral, 29. Curve Tracing, 30. Area, 31. Volume, 32. Length, 33. Surface Area, 34. Theorem of Pappus or Guldin, 35. Multiple Integrals, 36. Differential Equations, 37. Partial Differential Equations, 38. Partial Differential Equations in Practical Problems, 39. Statistics, 40. Probability, 41. Binomial Distribution, 42. Poisson Distribution, 43. Normal Distribution, 44. Gama Beta Distribution, 45. Finite Differences, 46. Difference Equations, 47. Numerical Analysis, 48. Envelopes • *Question Papers* • *Index*

**H K Dass** is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England). He is also the winner of Secular India Award – 1998.




## Higher Engineering Mathematics

H K Dass & Rajnish Verma

### About the Book

Written for all students of engineering, *"Higher Engineering Mathematics"* provides ample practice to be picked for aspirants of various entrance examinations.

Filled with examples and in-text exercises, the text successfully helps the student not only comprehend but practice and retain the understanding of otherwise difficult concepts. A book which has seen, foreseen and incorporated changes in the subject for more than 15 years, it continues to be one of the most sought after texts by the students.

### Salient Features

- Every topic relating to the subject has been provided with ample coverage.
- Close to 2000 solved examples (including previous year questions of different universities) on various topics have been incorporated for the better understanding and to make familiar with the standard and trend of questions set in the examinations.
- More than 2500 in-text exercise questions and book-end solved question papers provide apt practice of all concepts explained.

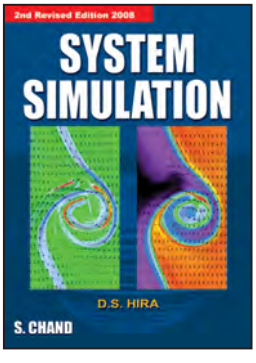
**ISBN: 9788121938907 | Code: 1010B00497 | Price: ₹ 1125 | Pages: 1,736 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit-I: 1. Partial Differentiation, 2. Total Differentiation, 3. Maxima and Minima of Functions (Two Variables), 4. Errors, 5. Jacobians, 6. Taylor's Series for Functions of Two Variables, Unit-II: 7. Double Integrals, 8. Application of the Double Integrals (Area, Centre of Gravity, Mass, Volume), 9. Triple Integration, 10. Application of Triple Integration, Unit-III: 11. Differential Equations of First Order, 12. Linear Differential Equations of Second Order, 13. Cauchy-Euler Equations, Method of Variation of Parameters, 14. Simultaneous Linear Differential Equations, 15. Differential Equation of other Types, 16. Applications to Differential Equations, Unit-IV: 17. Determinants, 18. Algebra of Matrices, 19. Rank of Matrix, 20. Consistency of Linear System of Equations and their Solutions, 21. Eigen Values, Eigen Vector, Cayley Hamilton Theorem, Diagonalisation (Complex and Unitary Matrices, Application), Unit-V: 22. Review of Vector Algebra, 23. Differentiation of Vector (Point Function, Gradient, Divergence and Curl of a Vector and their Physical Interpretations), 24. Vector Integration, Unit-VI: 25. Complex Numbers, 26. Expansion of Trigonometric Functions, 27. Functions of Complex Variable, Analytic Function, 28. Conformal Transformation, 29. Complex Integration, 30. Taylor's and Laurent's Series, 31. The Calculus of Residues (Integration), Unit-VII: 32. Series Solutions of Second Order Differential Equations, 33. Bessel's Functions, 34. Legendre Functions, 35. Hermite Function, 36. Laguerre's Function, 37. Chebyshev Polynomials, 38. Gama, Beta Functions, Unit-VIII: 39. Infinite Series, 40. Fourier Series, Unit-IX: 41. Integral Transfroms, 42. Laplace Transform, 43. Inverse Laplace Transforms, 44. Z-Transforms, 45. Hankel Transform, 46. Hilbert Transform, Unit-X: 47. First Order Lagrange's Linear Partial Differential Equations, 48. Linear Partial Differential Equations with Constant Coefficients of 2nd Order, 49. Applications of Partial Differential Equations, Unit-XI: 50. Algebraic and Transcendental Equations (Bisection Method, Regula Falsi, Newton Raphson Method), 51. Simultaneous Linear Equations, 52. Numerical Technique for Solution of Ordinary Differential Equations, 53. Numerical Techniques for Solution of Partial Differential Equation, Unit-XII: 54. Calculus of Variation, 55. Tensor Analysis, Unit-XIII: 56. Linear Programming, Unit-XIV: 57. Statistical Technique, 58. Method of Least Squares, 59. Correlation and Regression, 60. Correlation and Multiple Regression Analysis, Unit-XV: 61. Probability, 62. Sampling Methods, 63. Binomial Distribution, 64. Poisson Distribution, 65. Normal Distribution, 66. Fuzzy Sets • Index

**H K Dass** is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England). He is also the winner of Secular India Award – 1998.

**Rajnish Verma** is alumnus Delhi College of Engineering and MBA from FMS, New Delhi.




## System Simulation, 2e

D.S. Hira

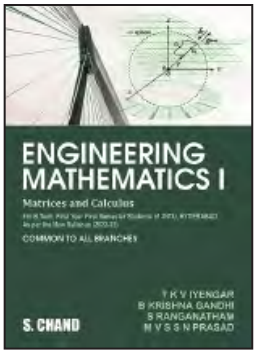
**ISBN: 9788121920599**
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**Price: ₹ 375 | Pages: 304**
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### Contents

1. Concepts of Simulation, 2. Monte Carlo Method, 3. Simulation of Continuous Systems, 4. Random Numbers, 5. Statistical Considerations, 6. Simulation of Queuing Systems, 7. Simulation of Inventory Systems, 8. Simulation of PERT, 9. Design of Simulation Experiment and Output Analysis, 10. Simulation Languages, 11. Simulation Examples, *Appendices: I. Random Numbers Table, II. Chi-Square Distribution, III. Normally Distributed Random Numbers, IV. Cumulative Poisson Probabilities, V. Students t-Distribution, VI. Kolmogorov-Smirnov Critical Values, VII. Area under Normal Distribution, VIII. Percentage Points of the F-Distribution with α = 0.05*

**D S Hira** is Director General, Swami Vivekanand Group of Institute, Patiala.

## Books for JNTU Hyderabad




## Engineering Mathematics-I

T K V Iyengar
B Krishna Gandhi
S Ranganatham
M V S S N Prasad

**ISBN: 9789355015631 | Price: ₹ 599**
**Pages: 856 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

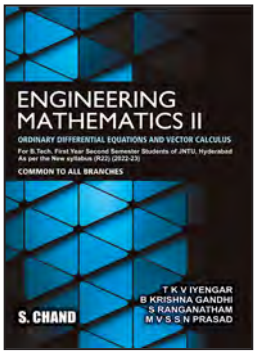
This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader.

### Key Features

- Strictly according to the revised syllabus ((R22) 2022 - 23 of First year (First Semester) B.Tech students of JNTU, Hyderabad.
- Close to 750 solved examples aid in ease of understanding of the concepts.
- More than 1050 chapter-end and Previous-Year GATE questions to enhance the learning quotient.

### Contents

UNIT - I Matrices 1. Matrices UNIT - II Eigen Values and Eigen Vectors 2. Eigen Values and Eigen Vectors 3. Quadratic Forms UNIT - III Calculus 4. Mean Value Theorems 5. Applications of Definite Integral 6. Beta and Gamma Functions UNIT - IV Multivariable Calculus (Partial Differentiation and Applications) 7. Partial Differentiation and Applications UNIT - V Multivariable Calculus (Integration) 8. Multiple Integrals




## Engineering Mathematics-II

Dr. T.K.V. Iyengar
Dr. B. Krishna Gandhi
S. Ranganatham &
Dr. M.V.S.S.N. Prasad

**ISBN: 9789355017413**
**Price: ₹ 625 | Pages: 688**
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### About the Book

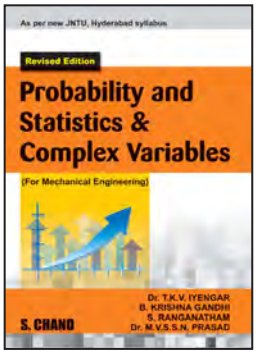
This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader.

### Key Features

- Strictly according to the revised syllabus (R22) 2022 - 23 of First year (Second Semester) B.Tech students of JNTU, Hyderabad.
- Close to 700 solved examples aid in ease of understanding of the concepts.
- More than 1000 chapter-end and Previous-Year GATE questions to enhance the learning quotient.

### Contents

UNIT – I First Order ODE, 1. Differential Equations of First Order and First Degree UNIT - II Ordinary Differential Equations of Higher Order, 2. Linear Differential Equations of Second and Higher Order, UNIT - III Laplace Transforms, 3. Laplace Transforms, 4. Inverse Laplace Transforms, UNIT - IV Vector Differentiation, 5. Vector Differentiation and Vector Operators, UNIT - V Vector Integration, 6. Vector Integration, 7. Vector Integral Theorems




## Probability and Statistics & Complex Variables

Dr T.K.V. Iyengar
Dr B. Krishna Gandhi
S. Ranganadham
Dr M.V.S.S.N. Prasad

**ISBN: 9789352837489 | Code: 9789352837489 | Price: ₹ 499**
**Pages: 728 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

The book "Probability and Statistics & Complex Variables", has been written strictly according to the latest syllabus (R-18) prescribed by Jawaharlal Nehru Technological University, Hyderabad for B. Tech. second year first semester students of Mechanical, Mechatronics , Mining, Petroleum, Metallurgical and Materials Engineering. An important feature is the inclusion of previous GATE questions at the end of each of chapter for the benefit of students. Questions from latest question papers of JNTU H, Hyderabad have been inserted at proper places. The objective type questions have been given at the end of each unit.

### Key Features

- The book is strictly according to the latest syllabus (R-18) prescribed by Jawaharlal Nehru Technological University, Hyderabad for B. Tech. II year First Semester students of Mechanical, Mechatronics , Mining, Petroleum, Metallurgical and Materials Engineering.
- Previous GATE Questions at the end of each chapter for the benefit of the students.
- Questions from latest question papers of J.N.T.U., Hyderabad have been inserted at proper places.
- The Objective type questions have been given at the end of each unit.

### Contents

1. Matrices, 2. Eigen Values and Eigen Vectors, 3. Sequences & Series, 4. Calculus, 5. Multivariable Calculus (Partial Differentiation and applications), Solutions to JNTU (H) - Dec. 2018 Question Paper




## Laplace Transforms, Numerical Methods & Complex Variables

T. K. V. Iyengar
B. Krishna Gandhi
S. Ranganatham
M.V.S.S.N. Prasad

**ISBN: 9789352838219 | Code: 9789352838219 | Price: ₹ 599**
**Pages: 904 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

There are many transform techniques which are used in the analysis and design of engineering systems. Some of the transform techniques were introduced in the beginning by great individuals which were vigorously defined and developed by mathematicians in later days. The technique of Laplace transform is one such. In this book the idea of Laplace transform has been developed for some useful results. Also the Laplace transform technique is used in solving a class of problems in differential equations. This technique is applicable in many cases. In practical problems, in many engineering applications, where we are concerned with solution of initial value problems, this is a useful technique. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students.

### Key Features

- In this book the idea of Laplace transform has been developed for some useful results.
- Laplace transform technique is used in solving a class of problems in differential equations.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU H, have been inserted at proper places.
- The objective type questions have been given at the end of each unit.

## Contents

1. Laplace Transforms, 2. Inverse Laplace Transforms, 3. Solution of Algebraic & Transcendental Equations, 4. Interpolation, 5. Numerical Integration, 6. Numerical Solution of Ordinary Differential Equations, 7. Functions of a Complex Variable, 8. Complex Integration, 9. Complex Power Series,10. Contour Integration

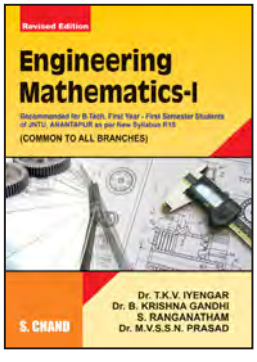
Dr TKV Iyengar was working in the department of Mathematics of NIT, Warangal. He has experience of 40 years in teaching mathematics for engineering students. He has enlightened the applications of mathematics in engineering. Under his guidance, number of students obtained their doctorate degrees.

Dr B Krishna Gandhi was head of the department of mathematics in JNTU, Hyderabad. He was Vice Chancellor of JNTU Ananthapur. He has comprehensive experience as lecturer of mathematics. Under his guidance, number of students obtained their doctorate degrees.

S Ranganatham was head of the department of mathematics in Jawahar Bharati in Kavali which was recognised as prime college by UGC. He has over 35 years of teaching mathematics for engineering and degree students. He obtained his M. Phil from SV University Tirupati.

Dr MVSN Prasad was a lecturer in technical education of Govt of A.P. He obtained his Ph.D from SV University Tirupati. He is now Principal of Government Polytechnic. He wrote many books in mathematics for polytechnic students.

# Books for JNTU Anantapur




## Engineering Mathematics-I

Dr. T.K.V. Iyengar
Dr. B. Krishna Gandhi
S. Ranganatham
Dr. M.V.S.S.N. Prasad

**ISBN: 9789352837663 | Code: 9789352837663 | Price: ₹ 499**
**Pages: 776 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This is the sixteenth edition of the book "Engineering Mathematics-I". The earlier editions have received positive response from the teachers and the students. This textbook has been written conferring to the revised syllabus (R19) of first year (First Semester) of B. Tech students of JNTU, Anantapur. In this edition some topics have been updated. The previous question paper problems have been included at appropriate places. For the benefit of the students, the previous GATE questions have been included at the end of each chapter. The topics has been made as simple as possible and in some instances detailed explanation is given, as the content is meant to be understood with a minimum effort.

### Key Features

- The book is written strictly according to the revised syllabus of JNTU Ananthpur.
- Theory is explained in a lucid manner using good number of examples.
- Latest questions from question paper are used at appropriate places.
- At the end of each chapter, latest questions from GATE question, are included.
- Model question papers are given for the student to prepare for the GATE examination.
- Previous question papers are fully solved and appended at the end.

## Contents

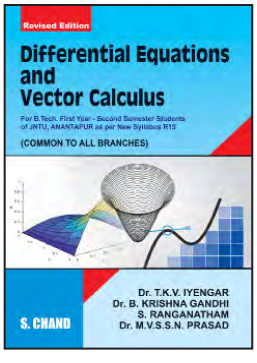
1. Matrices, 2. Eigen Values and Eigen Vectors, 3. Quadratic Forms, 4. Mean Value Theorems, 5. Partial Differentiation and applications, 6. Multiple Integrals, 7. Beta and Gamma Functions

Dr. T.K.V. Iyengar was working in the department of Mathematics of NIT, Warangal. He has experience of 40 years in teaching mathematics for engineering students. He has enlightened the applications of mathematics in engineering. Under his guidance, number of students obtained their doctorate degrees.

Dr. B. Krishna Gandhi was head of the department of mathematics in JNTU, Hyderabad. He was Vice Chancellor of JNTU Ananthapur. He has comprehensive experience as lecturer of mathematics. Under his guidance, number of students obtained their doctorate degrees.

S. Ranganatham was head of the department of mathematics in Jawahar Bharati in Kavali which was recognised as prime college by UGC. He has over 35 years of teaching mathematics for engineering and degree students. He obtained his M. Phil from SV University Tirupati.

Dr. M.V.S.S.N. Prasad was a lecturer in technical education of Govt of A.P. He obtained his Ph.D from SV University Tirupati. He is now Principal of Government Polytechnic. He wrote many books in mathematics for polytechnic students.




## Differential Equations and Vector Calculus

Dr. T.K.V. Iyengar
Dr. B. Krishna Gandhi
S. Ranganatham
Dr. M.V.S.S.N. Prasad

**ISBN: 9789352838264 | Code: 9789352838264 | Price: ₹ 450**
**Pages: 512 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

There exist many problems in engineering and science which are governed by linear or nonlinear ordinary differential equations. The two forms of linear differential equations with variable coefficients which can be reduced to linear differential equations with constant coefficients by using proper substitutions, has been discussed. The linear partial differential equations of second and higher order with constant coefficients. These can be divided into two groups, homogeneous and non-homogenous linear equations. In this book, how to solve such type equations has been elaborately described. In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students

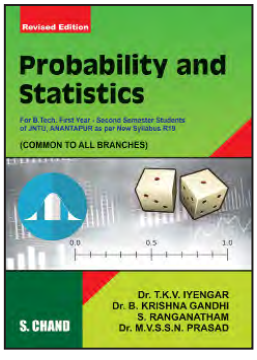
### Key Features

- The two forms of linear differential equations with variable coefficients which can be reduced to linear differential equations with constant coefficients by using proper substitutions, has been discussed. The linear partial differential equations of second and higher order with constant coefficients. These can be divided into two groups, homogeneous and non-homogenous linear equations. In this book, how to solve such type equations has been elaborately described.

- In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU A, have been inserted at proper places.
- The objective type questions have been given at the end of each unit

### Contents

1. Linear Differential Equations of Higher Order, 2. Equations Reducible to Linear Differential Equations, 3. Partial Differential Equations of First Order, 4. Partial Differential Equations of Higher Order, 5. Vector Differentiation and Vector Operators, 6. Vector Integration, 7. Vector Integral Theorems




## Probability and Statistics

Dr T. K. V. Iyengar
Dr B. Krishna Gandhi
S. Ranganatham
Dr MVSSN Prasad

**ISBN: 9789352838271**
**Code: 9789352838271**
**Price: ₹ 425 | Pages: 592**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

Data science is the practice of using statistical techniques, regression models, machine learning and deep learning algorithms to produce advanced insights and build predictive applications. All software applications are intended to increase productivity and efficiency by automating human activity. Traditionally, these tasks needed to be repetitive in nature and based on a deterministic set of rules. An example would be an accounting system that can take sales and expenses and automatically create a balance sheet. The intent of data science applications is to automate tasks that require human judgement and are not driven by deterministic rules. Data science is a powerful discipline that can deliver great value to enterprises. It can be applied to a variety of domains and there are specialized domain specific techniques available. But data science problems are open-ended and require experimentation and an active spirit of enquiry. Statistics is a tool in the hands of mankind to translate complex facts into simple and understandable statement of facts. Both these approaches are used in this book with examples to explain the concepts. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students

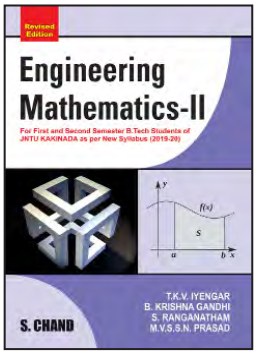
### Key Features

- Data science and statistics, both these approaches are used in this book with examples to explain the concepts.
- In this book, the importance of statistical analysis has been explained with examples.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU A, have been inserted at proper places.
- The quiz questions have been given at the end of each unit.

### Contents

1. Descriptive Statistics, 2. Measures of Central Tendency and Variability, 3. Correlation 4. Regression, 5. Probability, 6. Random Variables & Distribution Functions, 7. Probability Distributions, 8. Estimation, 9. Testing of Hypothesis (Large Sample Tests), 10. Test of Significance (Small Sample Tests) • Statistical Tables

# Books for JNTU Kakinada




## Engineering Mathematics-II

T.K.V. Iyengar
B. Krishna Gandhi
S. Ranganatham
M.V.S.S.N. Prasad

**ISBN: 9789352837939 | Price: ₹ 540**
**Pages: 776 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

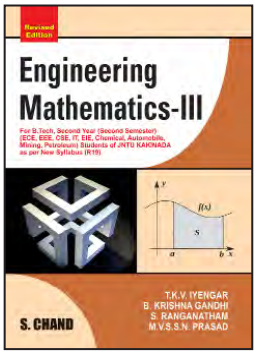
It gives us great pleasure to bring out the Third edition of the book "Engineering Mathematics-II". The earlier editions have received positive response from the teachers and the students. This textbook has been written strictly according to the revised syllabus (R19) of First year - First Semester (Civil, Mechanical, Automobile, Chemical, Mining and Petroleum) & Second Semester (CSE, ECE, EEE, EIE, IT) B.Tech students of JNTU, Kakinada. This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of Previous Question Paper problems at appropriate places and also Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader.

### Key Features

- The book is written strictly according to the revised syllabus of JNTU Kakinada.
- Theory is explained in a lucid manner using good number of examples.
- Latest questions from question paper are used at appropriate places.
- At the end of each chapter, latest questions from GATE question, are included.
- Model question papers are given for the student to prepare for the GATE examination.
- Previous question papers are fully solved and appended at the end.

### Contents

1. Real and Complex Matrices and Linear System of Equations, 2. Eigen Values and Eigen Vectors, 3. Quadratic Forms, 4. Solution of Algebraic and Transcendental Equations, 5. Interpolation, 6. Numerical Integration, 7. Numerical Solution of Ordinary Differential Equations




## Engineering Mathematics-III

T. K. V. Iyengar
B. Krishna Gandhi
S. Ranganatham
M.V.S.S.N. Prasad

**ISBN: 9789352838202**
**Price: ₹ 595 | Pages: 824**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

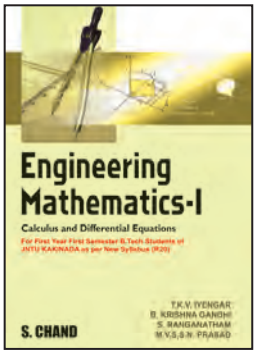
In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way. The new concepts of gradient, divergence and curl are introduced. Line, surface and volume integrals which occur frequently in connection with physical and engineering problems are defined. Three important vector integral theorems, Gauss divergence theorem, Green's theorem in plane and Stokes theorem are discussed. The idea of Laplace transform to develop some useful results has been introduced also demonstrated how the Laplace transform technique is used in solving a class of problems in differential equations. Fourier series is an infinite series representation of a periodic function in terms of sines and cosines of an angle and its multiples. How Fourier series is useful to solve ordinary and partial differential equations particularly with periodic functions appearing as non-homogeneous terms has been discussed. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students.

### Key Features

- In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way.
- The new concepts of gradient, divergence and curl are introduced.
- Three important vector integral theorems, Gauss divergence theorem, Green's theorem in plane and Stokes theorem are discussed.
- Laplace transform technique is used in solving a class of problems in differential equations.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU K, have been inserted at proper places.
- The objective type questions have been given at the end of each unit.

### Contents

1. Vector Differentiation, 2. Vector Integration, 3. Vector Integral Theorems, 4. Laplace Transforms, 5. Inverse Laplace Transforms, 6. Fourier Series, 7. Fourier Transforms, 8. First Order Partial Differential Equations, 9. Second and Higher Order Partial Differential Equations, 10. Applications of Partial Differential Equations




## Engineering Mathematics - I: for B.Tech. First Year (First Semester) Students of JNTU Kakinada

Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

**ISBN: 9789355011961**
**Price: ₹ 675 | Pages: 848**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

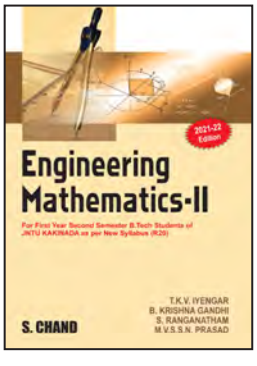
"Engineering Mathematics - I [Calculus and Differential Equations]" has been written strictly according to the revised syllabus (R20) of the First year (First Semester) B. Tech students of Jawaharlal Nehru Technological University, Kakinada. Topics are explained in a streamlined manner with minimal error precision as the primary goal of this book is to make students understand the concepts with minimum effort. Additional Previous GATE Questions at the end of each chapter with Previous Question Paper problems makes this book an ideal choice for undergraduate students

### Key Features

- Including Chapter wise Previous GATE Questions
- Added with 3 Solved Question papers at the end
- Provided with more than 800 solved examples and over 1000 unsolved questions for practice

### Contents

1. Sequences and Series, 2. Mean Value Theorems, 3. Differential Equations of First Order and First Degree, 4. Linear Differential Equations of Higher Order, 5. Partial Differentiation, 6. Multiple Integrals, • Solutions to JNTU (K) Question Papers




## Engineering Mathematics - II: (Linear Algebra and Numerical Methods) JNTU Kakinada

Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

**ISBN: 9789355010056**
**Price: ₹ 625 | Pages: 912**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

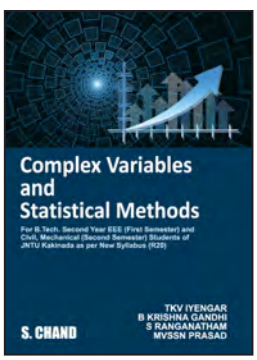
This Textbook "Engineering Mathematics - II (Linear Algebra and Numerical Methods)" has been written strictly according to the revised syllabus (R20) of the First year - Second Semester B. Tech students of Jawaharlal Nehru Technological University, Kakinada. Previous Question Paper problems at appropriate places and GATE 2020 Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with a detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader. However, as Mathematics is a subject to be understood and practised, the students are advised to practice the exercises.

### Key Features

- Strictly according to the revised syllabus (R20) of 1st year - 2nd Semester B. Tech students of JNTU, Kakinada
- GATE 2020 Questions Including Previous Question Paper Problems at appropriate places
- Detailed explanation for all the Topics

### Contents

Unit - I Solving Systems of Linear Equations, Eigen Values and Eigen Vectors, 1. Real and Complex Matrices and Linear System of Equations, 2. Eigen Values and Eigen Vectors, Unit - II Cayley-Hamilton Theorem and Quadratic Forms, 3. Quadratic Forms, Unit - III Iterative Methods, 4. Solution of Algebraic and Transcendental Equations, Unit - IV Interpolation, 5. Interpolation, Unit - V Numerical Differentiation and Integration, Solution of Ordinary Differential Equations, 6. Numerical Differentiation, 7. Numerical Integration, 8. Numerical Solution of Ordinary Differential Equations, • B.Tech. I Year, I Semester Regular Examinations, January 2020




## Complex Variables and Statistical Methods

Dr. T.k.v. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

**ISBN: 9789355011855**
**Price: ₹ 599 | Pages: 904**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

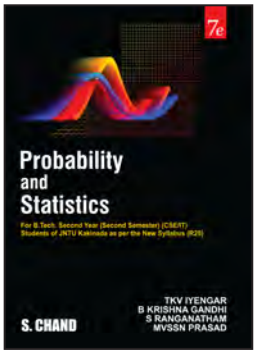
"Complex Variables and Statistical Methods" is written strictly according to the revised syllabus (R20) of B.Tech Second year (First Semester) EEE and Second year (Second Semester) Civil and Mechanical students of Jawaharlal Nehru Technological University, Kakinada. It covers ';Functions of A Complex Variable and Complex Integration', ';Probability and Distributions', ';Sampling Distributions', and ';Test of Hypothesis and Significance' with Previous GATE Questions at the end of every chapter for the benefit of the students.

### Key Features

- Strictly according to the revised syllabus (R20) of B. Tech Second year (First Semester) EEE and Second year (Second Semester) Civil and Mechanical students of JNTU, Kakinada.
- Over 900 solved examples aid in ease of understanding of the concepts.
- More than 850 chapter-end and Previous-Year GATE questions to enhance the learning quotient.

### Contents

UNIT - I Functions of a Complex Variable and Complex Integration, 1. Functions of a Complex Variable, 2. Complex Integration, UNIT - II Series Expansions and Residue Theorem, 3. Complex Power Series, 4. Singularities and Residue Theorem, UNIT - III Probability and Distributions, 5. Probability, 6. Random Variables & Distribution Functions, 7. Mathematical Expectation, 8. Discrete Probability Distributions, 9. Continuous Random Variables & Distributions, UNIT - IV Sampling Theory, 10. Sampling Distributions, 11. Estimation, UNIT - V Tests of Hypothesis, 12. Test of Hypothesis,13. Test of Significance (Small Samples)




## Probability and Statistics (JNTUK)

Dr. T.k.v. Iyengar, Dr. M.v.s.s.n. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

**ISBN: 9789355010643**
**Price: ₹ 499 | Pages: 712**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

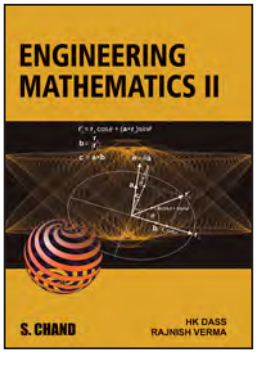
" Probability and Statistics " is written strictly according to the revised syllabus 2020-21 (R20) of B. Tech 2nd year (Second semester) C.S.E. and Allied Branches of CSE students of Jawaharlal Nehru Technological University, Kakinada. It covers Descriptive Statistics and Methods for Data Science, Correlation and Curve Fitting, Probability and Distributions, Sampling Theory, Tests of Hypothesis and tend to enclose Previous Question Paper issues at suitable places and conjointly Previous GATE Questions at the end of every chapter for the benefit of the students.

### Key Features

- ·Strictly according to the revised syllabus 2020-21 (R20) of B. Tech. II year (Second semester) C.S.E. and allied branches of CSE students of JNTU, Kakinada.
- ·Over 100 GATE 2020 Questions including previous question paper problems at appropriate places
- ·More than 600 solved examples, 160 objective type question and 260 unsolved exercises strengthen the well-explained theoretical concepts

### Contents

UNIT - I, 1. Descriptive Statistics, 2. Measures of Central Tendency and Variability, UNIT - II, 3. Correlation, 4. Regression, 5. Curve Fitting, UNIT - III, 6. Probability, 7. Random Variables & Distribution Functions, 8. Mathematical Expectation, 9. Discrete Probability Distributions, 10. Continuous Random Variables & Distributions, UNIT - IV, 11. Sampling Distributions, 12. Estimation, UNIT - V, 13. Test of Hypothesis, 14. Test of Significance (Small Samples), • Statistical Tables




## Engineering Mathematics-II

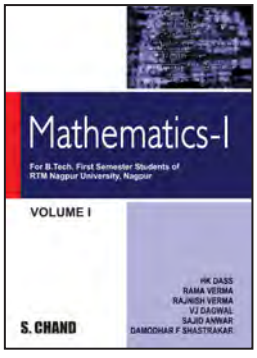
H K Dass & Rajnish Verma

**ISBN: 9789355017611**
**Price: ₹ 450 | Pages: 460**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Differentiation of Vectors (Point function, Gradient, Divergence and Curl of a Vector and their Physical Interpretations), 2. Vector Integration., 3. Linear Differential Equations of Second Order, 4. Cauchy - Euler Equations, Method of Variation of Parameters, 5. Simultaneous Linear Differential Equations, 6. Functions of Complex Variable, Analytic Function, 7. Conformal Transformation, 8. Complex Integration (Cauchy's Integral Theorem, Cauchy's Integral Formula for Derivatives of analytic function), 9.Taylor's and Laurent's Series, 10.The Calculus of Residues (Integration), 11. Laplace Transform, 12. Inverse Laplace Transforms (Solution of differential equations)

## Book for RTM Nagpur Universities




### Mathematics - I (RTMNU)

H K Dass, Rajnish Verma, Dr. Rama Verma, Dr. Vinod J. Dagwal, Dr. Sajid Anwar & Dr. Damodhar F. Shastrakar

**ISBN: 9789355011930**
**Code: 9789355011930**
**Price: ₹ 300 | Pages: 504**
**Size: 6.5 X 9.25 (Paperback)**

### About the Book

"Mathematics - I" is as per the latest prescribed Syllabus RTMNU Nagpur with a major focus on Differential and Multivariable Calculus, Matrices, First Order and Higher Order Ordinary Differential Equations. The text is lucid and brimming with examples for further ease of students. The practice quotient is high as well so that the reader further understands the topics which have been deftly explained.

### Key Features

- A comprehensive explanation of all topics is provided with 21 chapters.
- Over 500 solved examples for better understanding.
- More than 800 practice exercise questions from examination papers of various Technical Universities.

### Contents

UNIT 1: Differential Calculus
1. Successive Differentiation: Leibniz Rule, 2. Taylor and Maclaurin Series, 3. Indeterminate Forms and L'Hôpital Rule, 4. Maxima and Minima for Function of One Variable UNIT 2: Multivariable Calculus (Differentiation), 5. Partial Derivatives, 6. Total Differentiation, 7. Jacobians, 8. Maxima and Minima for Function of Two Variables, 9. Lagrange Method of Undetermined Multipliers, UNIT 3: Matrices 10. Inverse of Matrix by Partitioning, 11. Rank of Matrix, 12. Consistency of Linear System of Equations, 13. Linear and Orthogonal Transformations, 14. Cayley - Hamilton Theorem, UNIT 4: First Order Ordinary Differential Equations, 15. First Order Differential Equations, 16. Applications of First Order Differential Equations, UNIT 5: Higher Order Ordinary Differential Equations, 17. Higher Order Linear Differential Equations with Constant Coefficients, 18. Method of Variation of Parameters, 19. Cauchy and Legendre's Homogeneous Differential Equations, 20. Simultaneous Differential Equations, 21. Applications of Higher Order Differential Equations, • Questions from Latest RTMNU Examination Papers Mathematics-I, • Index

H K Dass: M.Sc., Diploma in Specialist Studies (Maths), University of Hull England.
Dr. Rama Verma: M.Sc. (Gold Medallist), Ph.D., Associate Professor, Mata Sundri College, University of Delhi.
Er. Rajnish Verma: Ph.D. (P), Follow IETE, MBA, B.E. Electronics Engineering, DCE/DTU Consultant (Retd) - TCS Ltd., Ex. DGM-CMC Ltd.
Dr. Vinod J. Dagwal: Head & Assistant Professor Department of Mathematics Government College of Engineering, Nagpur.
Dr. Sajid Anwar: Professor and former Principal Anjuman College of Engineering and Technology, Nagpur.
Dr. Damodhar F. Shastrakar: Assistant Professor Smt. Radhikatai Pandav College of Engineering, Nagpur.




### Mathematics - II Semester-II: (RTM) Nagpur University

H K Dass, Rajnish Verma, Dr. Rama Verma, Dr. Vinod J. Dagwal, Dr. Sajid Anwar & Dr. Damodhar F. Shastrakar

**ISBN: 9789355012012**
**Price: ₹ 350 | Pages: 480**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

"Mathematics - II" is as per the latest prescribed Syllabus RTMNU Nagpur with a major focus on Integral, Multivariable and Vector Calculus, Statistics and Finite Differences. The text is lucid and brimming with examples for further ease of students. The practice quotient is high as well so that the reader further understands the topics which have been deftly explained.

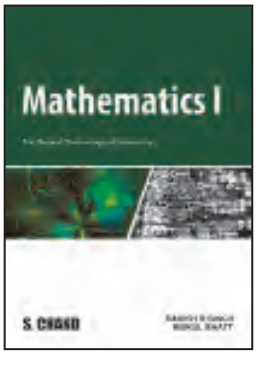
### Key Features

- A comprehensive explanation of all topics is provided with 24 chapters.
- Over 500 solved examples for better understanding of the concepts.
- More than 700 exercise questions and 125+ previous year examination questions add to the practice quotient.

### Contents

UNIT 1: Integral Calculus, 1. Evaluation of Definite and Improper Integrals, 2.Beta, Gamma Functions and Properties, 3. Differentiation of Definite Integral, 4. Mean Value, Mean Square Value and Root Mean Square Value, 5. Tracing of Cartesian Curves, 6. Applications of Definite Integrals-Length of Curves, 7. Area, 8. Volume and Surface Area of Solids of Revolution - Cartesian, Polar and Parametric curves, UNIT 2: Multivariable Calculus (Integration), 9.Double Integrals-Cartesian and Polar, 10.Change of Order of Integration, 11.Change of Variables-Cartesian to Polar, 12. Applications: Area, Mass, Volume and Centre of Gravity by Double Integrals, 13.Elementary Triple Integrals, UNIT 3: Vector Calculus, 14.Product of Vectors, 15.Vector Differentiation, 16.Vector Integration: Line Integral and Work, UNIT 4: Statistics, 17. Fitting of Curve by Least Squares, 18. Coefficient of Correlation, 19. Lines of Regression, 20. Rank Correlation, UNIT 5: Finite Differences, 21.Finite Differences Operator E & Delta, Factorial Polynomial, 22.Lagrange's Interpolation: Unequal Intervals of Arguments, 23.Numerical Integration, 24.Difference Equation with Constant Coefficients, Questions from Latest RTMNU Examination Papers Mathematics-II, Index

## Book for Gujarat University




### Mathematics - I

Ravish R. Singh
Mukul Bhatt

**ISBN: 9789355015280**
**Price: ₹ 625 | Pages: 1040**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

Mathematics - I has been written specifically for the first year Gujarat Technological University (GTU) syllabus and students of all programs of engineering since first semester mathematics is common to all branches. It covers Indeterminate Forms, Gamma and Beta Functions, Applications of Definite Integrals, Sequences and Series, Taylor's and Maclaurin's Series, Fourier Series, Partial Derivatives, Multiple Integrals, and Matrices for the benefit of the students.

### Key Features

- Apt coverage with strict adherence to the latest GTU syllabus of Mathematics-1
- Completion of each section is accompanied with an exercise to test gleaning of individual subject matter
- Appropriate incorporation of Solutions of GTU examination questions within the text
- A rich exam-oriented pedagogy includes:
  - i) Close to 300 figures
  - ii) Close to 900 in-text solved examples
  - iii) More than 550 exercise questions

### Contents

Unit-1, 1. Indeterminate Forms 2. Improper Integrals 3. Gamma and Beta Functions 4. Applications of Definite Integrals, Unit-2, 5. Sequences and Series, 6. Taylor's and Maclaurin's Series, Unit-3, 7. Fourier Series, Unit-4, 8. Partial Derivatives, Unit-5, 9. Multiple Integrals, Unit-6, 10. Matrices, Appendix 1: Differential Formulae, Appendix 2: Integral Formulae, Appendix 3: Reduction Formulae, Appendix 4: Standard Limits, Appendix 5: Standard Curves, Additional Solved Gujarat Technological University Examination Questions, • Index

**Ravish R. Singh:** Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
**Mukul Bhatt:** Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra

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## Mathematics - II

Ravish R. Singh

Mukul Bhatt

**ISBN: 9789355015624**
**Price: ₹ 550 | Pages: 736**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

Mathematics - II has been written specifically as per the Gujarat Technological University (GTU) syllabus and for First Year (Second Semester) students of all programmes of engineering. It covers important topics such as Vector Calculus, Laplace Transform and Inverse Laplace Transform, Fourier Integral, First Order Ordinary Differential Equations, Ordinary Differential Equations of Higher Orders, and Series Solutions of Ordinary Differential Equations and Special Functions to help students gain a deep-rooted understanding of the key elements of the subject which would help students to build their self-confidence which is the key aspect in learning.

### Key Features

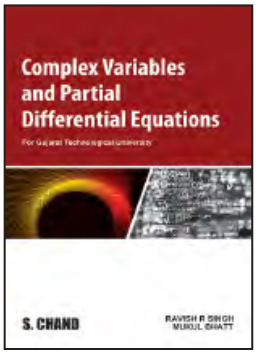
- Apt coverage with strict adherence to the latest GTU syllabus of Mathematics-II
- Completion of each section is accompanied with an exercise to test gleaning of individual subject matter
- Appropriate incorporation of Solutions of GTU examination questions within the text
- A rich exam-oriented pedagogy includes:
  - i) Close to 700 in-text solved examples and figures
  - ii) Close to 550 exercise questions

### Contents

1. Vector Calculus, 2. Laplace Transform and Inverse Laplace Transform, 3. Fourier Integral, 4. First Order Ordinary Differential Equations, 5. Ordinary Differential Equations of Higher Orders, 6. Series Solutions of Ordinary Differential Equations and Special Functions

**Ravish R. Singh:** Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
**Mukul Bhatt:** Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra

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## Complex Variables and Partial Differential Equations

Ravish R. Singh & Mukul Bhatt

**ISBN: 9789355015334**
**Price: ₹ 450 | Pages: 640**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

This book has been designed specifically for the Gujarat Technological University (GTU) syllabus and for the students of engineering in their Third Semester. Eight dedicated chapters are set to sequentially cover each module of the syllabus and are compounded by the ';tutorial technique', i.e., theory followed by example(s) so that the learner develops an increased sense of conscious intellection. This exceptional mix of theory and application caters to all types of requirements, be it the student or the teacher. Not only is the syllabus rigorously followed, but each topic has also been treated with the end-examination in sight. Concepts are well-aided with solved examples (of different complexities) so that every learner understands the topic at hand.

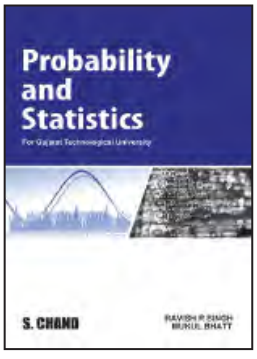
### Key Features

- Apt coverage with strict adherence to the latest GTU syllabus of Complex Variables and Partial Differential Equations
- Completion of each section is accompanied with an exercise to test gleaning of individual subject matter
- A rich exam-oriented pedagogy includes:
  - Close to 200 figures
  - Close to 500 in-text solved examples
  - More than 320 exercise questions

### Contents

1. Complex Numbers, 2. Complex Differentiation, 3. Conformal Mappings, 4. Complex Integration, 5. Power Series, 6. Residue Integration of Real Integrals, 7. First Order Partial Differential Equations, 8. Higher Order Partial Differential Equations, • Additional Solved Gujarat Technological University Examination Questions, • Index

**Ravish R. Singh:** Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
**Mukul Bhatt:** Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra




## Probability and Statistics

Ravish R. Singh & Mukul Bhatt

**ISBN: 9789355015341**
**Price: ₹ 425 | Pages: 552**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

This book has been designed specifically for the Gujarat Technological University (GTU) syllabus and students of engineering in their Third Semester. Seven dedicated chapters are set to sequentially cover each module of the syllabus and are compounded by the ';tutorial technique', i.e., theory followed by example(s) so that the learner develops an increased sense of conscious intellection. This exceptional mix of theory and application caters to all types of requirements, be it the student or the teacher. Not only is the syllabus rigorously followed, but each topic has also been treated with the end-examination in sight. Concepts are well-aided with solved examples (of different complexities) so that every learner understands the topic at hand.

### Key Features

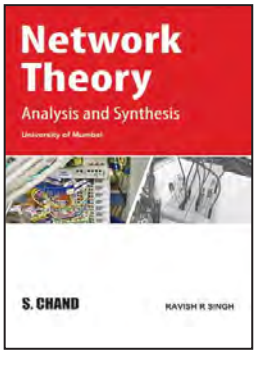
- Apt coverage with strict adherence to the latest GTU syllabus of Probability and Statistics.
- Completion of each section is accompanied with an exercise to test gleaning of individual
  subject matter.
- A rich exam-oriented pedagogy includes:
  - More than 50 figures
  - More than 350 in-text solved examples
  - More than 325 exercise questions

### Contents

1. Probability, 2. Random Variables, 3. Basic Statistics, 4. Correlation and Regression, 5. Some Special Probability Distributions, 6. Applied Statistics: Test of Hypothesis, 7. Curve Fitting, • Appendix, • Inde

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
Mukul Bhatt: Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra

## Book for Mumbai Universities




## Network Theory: Analysis and Synthesis

Ravish R. Singh

**ISBN: 9789355015358**
**Price: ₹ 525 | Pages: 608**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

This book is core to the understanding of engineering of Electronics and Telecommunications and hence it becomes an important subject for students of Electronics & Telecommunication Engineering and Electronics Engineering in their Third Semester. A strong conceptual understanding of the subject is what the textbook lends to its reader and an apart from an emphasis on problem-solving approach and discussion on both analysis and synthesis of networks. It offers ample coverage of DC circuits, network theorems, transient analysis, two-port networks, and network synthesis among other major topics.

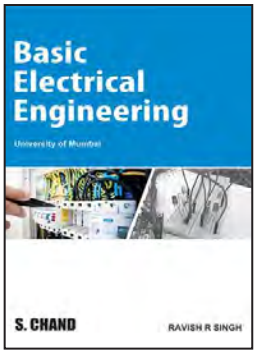
### Key Features

- Apt coverage of both analysis and synthesis of networks with strict adherence to the MU syllabus of Network Theory
- Marked problem-solving approach
- A rich exam-oriented pedagogy includes:
  - Close to 1150 figures
  - Close to 400 in-text solved examples
  - More than 400 exercise questions

### Contents

1. Circuit Analysis, 2. Magnetic Circuits, 3. Graph Theory, 4. Time Domain Analysis of R-L-C Circuits, 5. Frequency Domain Analysis of R-L-C Circuits, 6. Network Functions, 7. Two-Port Networks, 8. Synthesis of R-L-C Circuits, 9. Filters

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra




## Basic Electrical Engineering

Ravish R. Singh

**ISBN: 9789355015365**
**Price: ₹ 499 | Pages: 676**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

Basic Electrical Engineering is designed specifically for the First-Year Engineering students at the University of Mumbai. In that, the positive aspect is a thoughtful blend of theory and problems. This not only helps the students understand the concepts explained but also increases their practice quotient.

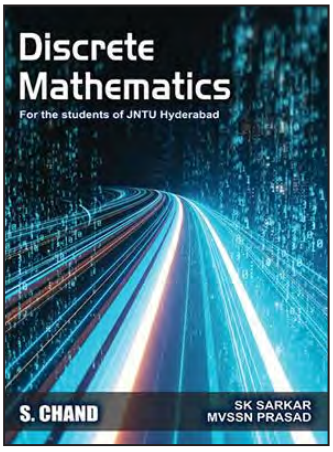
### Key Features

- Follows Bloom's taxonomy (Specific learning outcomes can be derived from the taxonomy, though it is oft used to assess learning on a variety of cognitive levels.)
- Apt coverage with strict adherence to the MU syllabus of Basic Electrical Engineering
- Completion of each section is accompanied with multi-format exercises to test gleaning of individual subject matter
- A rich exam-oriented pedagogy includes:
  - Close to 1000 figures
  - More than 450 in-text solved examples
  - Close to 400 exercise questions

### Contents

1. Basic Circuit Concepts - Prerequisite, 2. DC Circuits, 3. AC Circuits, 4. Three-Phase Circuits, 5. Transformers, 6. Electrical Machines, 7. DC Machines - Self-study Topic

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra




## Discrete Mathematics For the Students of JNTU Hyderabad

New

Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad

### About the Book

Discrete Mathematics caters to all students of JNTU Hyderabad who study the subject. Major topics including, but not limited to Set Theory, Relations, Functions, Algebraic Structures, Combinatorics and Number Theory have been explained in detail along with the examples which are based on the latest examinations of various institutions.

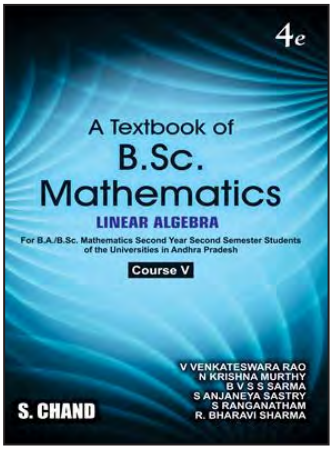
### Key Features

- A simple and lucid language has been used.
- More than 300 diagrams and tables not only help understand the subject matter but also make it interesting.
- Close to 700 solved examples help students understand the theoretical concepts.
- More than 800 of questions help facilitate the students to prepare for their examinations.

**ISBN: 9789355019943 | Price: ₹ 499 | Pages: 624 | Size: 6.50" x 9.25" (Paperback)**

### Contents

• Mathematical Logic, • Set Theory, • Relations, • Functions, • Posets and Lattices, • Algebraic Structures • Boolean Algebra • Combinatorics • Graph Theory • Trees




## A Textbook of B.Sc. Mathematics: Semester IV (Linear Algebra) : For Universities in Andhra Pradesh

New

V. VENKATESWARA RAO, R BHARAVI SHARMA, B.V.S.S. SARMA, N. KRISHNAMURTHY, S. ANJANEYA SASTRY & S. Ranganatham

### About the Book

This book has been written strictly according to new curriculum for Second Year: Second Semester students at all Universities of Andhra Pradesh. It covers important topics such as Vector Spaces, Basis and Dimension, Linear Transformation, Fundamentals of Matrices, Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem, Inner Product Spaces, and Orthogonality. The book will guide the students in a proper way and inspire them to sure and brilliant success. The authors are very happy that the earlier editions have been very well used by the students.

### Key Features

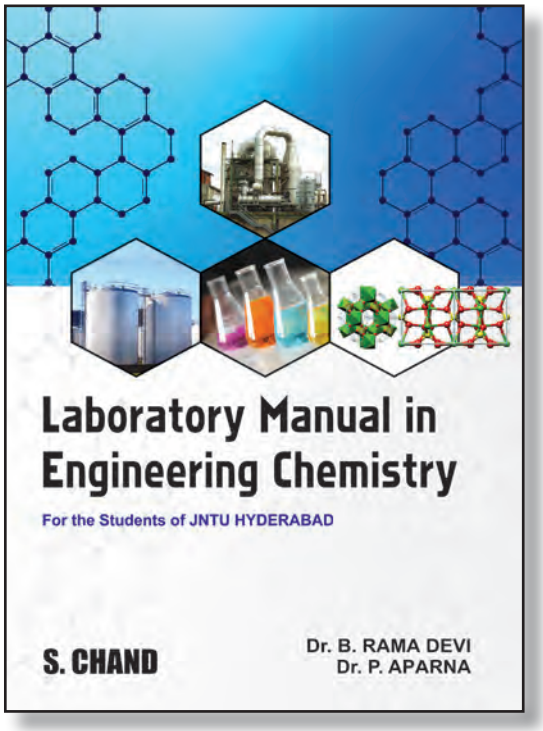
- The book has been written in simple and lucid language.
- Quiz, Questions for Problem Solving Session, Applications of Linear Algebra" are included to make the book more comprehensive.
- Detailed solutions for all problems in the various exercises of different chapters are given at the end.
- Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)" of 60 pages are also included at the end of the book.

**ISBN: 9789355017253 | Price: ₹ 275 | Pages: 312 | Size: 6.50" x 9.25" (Paperback)**

### Contents

UNIT I: 1. Vector Spaces UNIT - II: 2. Basis and Dimension, UNIT - III: 3. Linear Transformation, UNIT - IV: 4. Fundamentals of Matrices, 5. Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem UNIT - V: 6. Inner Product Spaces, 7. Orthogonality

Co-Curricular Activities: Quiz (Objective Type Questions), Questions for "Problems Solving Session", Applications of Linear Algebra, Model Question Paper & Previous Question Papers, Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)"




# Laboratory Manual in Engineering Chemistry : For the Students of JNTU Hyderabad

Dr. B. Rama Devi & Dr. P. Aparna

New

## About the Book

The book is written to gain the basic knowledge on the principles of chemistry required for practical applications in engineering concepts. This book consists organic and general chemistry experiments for chemical engineering for 1st and 2nd semester students. The book also explains the precautions and safety rules for avoiding the accidents in chemistry laboratory. It covers Estimation of Ferrous iron by Dichrometry and Permanganometry Method, Estimation of Acetic Acid by Conductometric Titrations, Estimation of the Amount of Fe+2 by Potentiomentry, Determination of an Acid Concentration using pH Meter, Preparation of Nylon-6 and Bakelite (Phenol-Formaldehyde Resin), Estimation of Acid Value of Given Lubricant Oil, Determination of Rate of Corrosion of Mild Steel, Preparation of Benzanilide from Benzophenone via the Oxime by Beckmann Rearrangement etc.

## Salient Features

- The basic aim of the book is to inculcate the ability to design an experiment, to make observations carefully and to draw the conclusions out of experimental data.
- This book is divided in 8 parts and all parts consist of relevant experiments.
- Student's requirements are given top priority and the material is fashioned in a student-friendly style.

**ISBN: 9789355016232 | Price: ₹ 125 | Pages: 136 | Size: 6.5" X 9.25" (Paperback)**

## Contents

I. VOLUMETRIC ANALYSIS
1. Estimation of Ferrous iron by Dichrometry Method
2. Estimation of Ferrous iron by Permanganometry Method
3. Determination Estimation of Hardness of water by Complexometry Method Using EDTA

II. CONDUCTOMETRY
1. Estimation of the Strength of an Acid by Conductometry
2. Estimation of Acetic Acid by Conductometric Titrations

III. POTENTIOMETRY
1. Estimation of the Amount of Fe+2 by Potentiomentry

IV. pH METRY
1. Determination of an Acid Concentration using pH Meter

V. PREPARATIONS
1. Preparation of Bakelite (Phenol-Formaldehyde Resin)
2. Preparation of Nylon-6

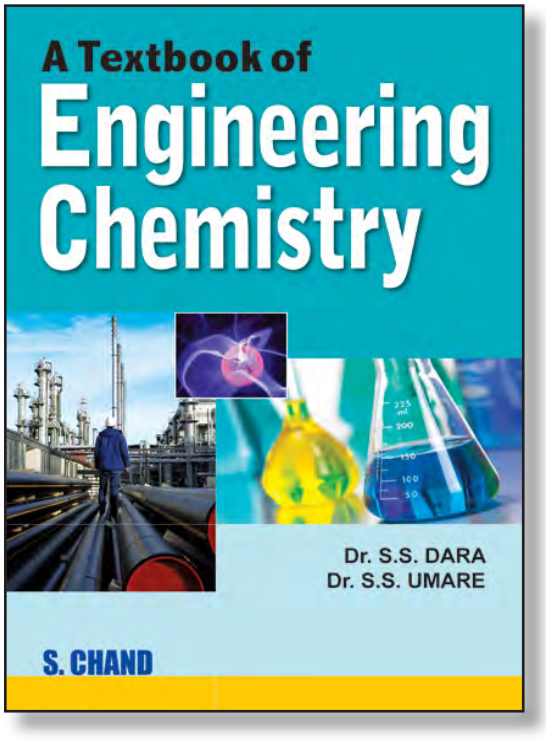
VI. LUBRICANTS
1. Estimation of Acid Value of Given Lubricant Oil
2. Determination of Saponification Value of a Lubricant Oil
3. Determination of Viscosity of Lubricant Oil Using Ostwald's Viscometer

VII. CORROSION
1. Determination of Rate of Corrosion of Mild Steel
2. Determination of Rate of Corrosion of Mild Steel in the Presence and Absence of Inhibitor

VIII. ORGANIC PREPRATION
1. Preparation pf m-Dinitrobenzene from Nitrobenzene by Nitration
2. Preparation of Benzanilide from Benzophenone via the Oxime by Beckmann Rearrangement
3. Preparation of Benzylideneacetophenone from Benzaldehyde & Acetophenone by Claisen-Schmidt Reaction
4. Cycloaddition of Anthracene with Maleic Anhydride by Diels-Alder Reaction
5. Preparation of Benzoic Acid and Benzyl Alcohol from Benzaldehyde using Canizzaro's Reaction
6. Preparation of β-Napthylbenzoate Using α-Napthol and Benzoyl Chloride using Schotten-Baumann Reaction
7. Preparation of Acetylsalicylic Acid (Aspirin) from Salicylic Acid
8. Preparation of Hippuric Acid from Glycine and Benzoyl Chloride
9. Preparation of 7-Hydroxy-4-Methylcoumarin Using Resorcinol and Ethyl Acetoacetate
10. Preparation of Azalactone from Hippuric Acid
11. Preparation of Tribromo Aniline from Aniline
12. Preparation of Tribromophenol from Phenol

Qualitative Organic Analysis

Physical Chemistry Experiments




# A Textbook of Engineering Chemistry, 12e

S.S. Dara & S.S. Umare

## About the Book

*"A Textbook of Engineering Chemistry"* is written exclusively for students of all branches of engineering, keeping in view their professional requirements. A comprehensive book, divided in 26 chapters, in its twelfth edition, with the help of apt revisions, continues to cover the entire syllabus of engineering chemistry for different universities for more than 30 years.

## Salient Features

- Dedicated chapters on Environmental Chemistry, Non-Conventional Energy, Green Chemistry and Photochemistry
- Close to 700 tables, figures, examples and questions for students' understanding and practice
- Two appendixes explaining the El Niño Phenomenon and its Effects and Basic Principles of Green Chemistry

**ISBN: 9788121903592 | Code: 1010C00092 | Price: ₹ 825 | Pages: 992 | Size: 6.5" X 9.25" (Paperback)**

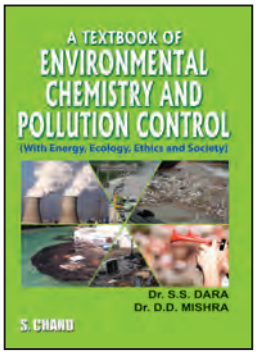
## Contents

1. Water Treatment
2. Fuels and Combustion
3. Nuclear Fuels and Nuclear Power Generation
4. Corrosion
5. Lubricants
6. Portland Cement
7. Phase Rule
8. Chemical Bonding
9. Polymers
10. Composite Materials
11. Thermodynamics Equilibrium and Kinetics
12. Crystal Structures
13. Structure of Solids
14. Mechanical Properties
15. Glass and Ceramics
16. Refractories
17. Electroplating
18. Environmental Chemistry and Control of Environmental Pollution
19. Non-Conveantional Energy Sources
20. Powder Metallurgy and its Industrial Applications
21. Batteries and Battery Technology
22. Instrumental Techniques in Chemical Analysis
23. Green Chemistry for Clean Technology
24. Mechanism of Organic Reactions
25. Reaction Dynamics and Catalysis
26. Photochemistry

- *Question Bank*
- *Appendix-1: El Niño Phenomenon and its Effects*
- *Appendix-2: Basic Principles of Green Chemistry*
- *Bibliography*
- *Index*

**S S Dara** is Former Professor and Head: Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

**S S Umare** is Professor and Head: Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.




## A Textbook of Environmental Chemistry and Pollution Control, 9e

S.S. Dara & D.D. Mishra

**ISBN: 9788121908832**
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**Price: ₹ 495 | Pages: 536**
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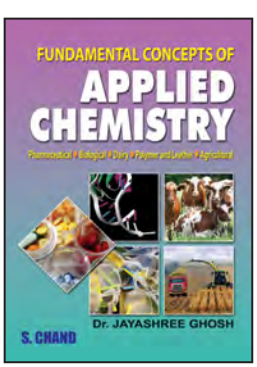
### Contents

1. Environmental Chemistry, 2. Environmental Pollution: {A. Air Pollution, B. Water Pollution, C. Noise Pollution, D. Soil Pollution, E. Marine Pollution, F. Thermal Pollution, G. Nuclear Hazards (Pollution)}, 3. Solid Wastes – Pollution, Treatment and Disposal, 4. Hazardous Wastes, 5. Trace Elements – Pollution & Control, 6. Natural Resources, 7. Energy and Environment, 8. Ecosystems, 9. Genetic and Plant Biodiversity, 10. Bio-Technology and its Application in Environmental Protection, 11. Environmental Management, 12. Social Issues and the Environment, 13. Human Population and the Environment, 14. Effects of Electric and Magnetic Fields in the Environment, 15. Sustainable Development: New Approaches, 16. Green Chemistry for Clean Technology, 17. Ethics and Moral Values • *Appendices: 1. Rio-declaration on Environment and Development (Earth Charter), 2. Drinking Water Standards, 3. National Ambient Air Quality Standards, 4. Standards for Noise Levels, 5. Standards for Discharge of Industrial and Sewage Effluents, 6. Standards of Maharashtra Pollution Control Board for Treated Waste Water* • *Bibliography* • *Index*

**S S Dara** is former Professor and Head, Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

**D D Mishra** is Principal, Technocrats Institute of Technology, Bhopal.

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## Fundamental Concepts of Applied Chemistry

Jayashree Ghosh

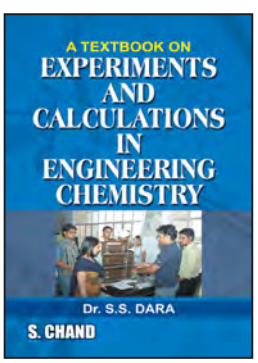
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**Price: ₹ 395 | Pages: 448**
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### Contents

Unit-I: Pharmaceutical Chemistry: 1. Introduction, 2. Classification and Nomenclature of Drugs, 3. Mechanism of Drug Action and Metabolism of Drugs, 4. Causes of Common Diseases and their Treatment by Drugs, 5. Some Medicinally Important Inorganic Compounds, 6. Biological Role of Some Inorganic Compounds, 7. Antibacterial Drugs, 8. Antiseptics and Disinfectants, 9. Anaesthetics, 10. Analgesics, Antipyretic and Anti-Inflammatory Agents, 11. Anti-Convulsant Agents, 12. Diabetes and Hypoglycemic Drugs, 13. Cancer and Antineoplastic Drugs, 14. Vitamins, 15. Psychopharmacology, 16. Blood and Haematological Agents, 17. Cardio Vascular Drugs, 18. Acquired Immuno-Deficiency Syndrome (AIDS), 19. Indian Medicinal Plants, Unit-II: Biological Chemistry: 20. Nutrients Digestion and Absorption, 21. Enzymes, 22. Hormones, 23. Micro Nutrients and their Biological Role, Unit-III: Dairy Chemistry: 24. Milk and Milk Products, Unit-IV: Polymers and Leathers: 25. Polymer Chemistry (Gigantic Molecules), 26. Leather Chemistry, Unit-V: Agricultural Chemistry: 27. Soil Chemistry, 28. Insecticides, Fungicides and Herbicides, 29. Fertilizers, 30. Manures, Compost and Saw Dust • *Appendix-I: Units and their Abbreviations, Conversion Tables, Table of Measures* • *Appendix-II: Average Nutritive Value of Foods stuffs, Summary of Drugs* • *Questions* • *References*

**Jayashreee Ghosh** is HOD, Chemistry Department, Anna Adarsh College for Women, Chennai.

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## A Textbook on Experiments and Calculations in Engineering Chemistry

S.S. Dara

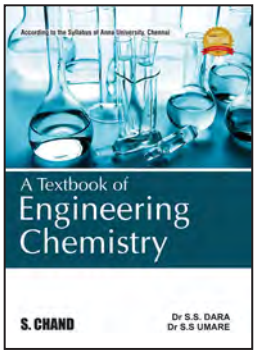
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**Price: POD | Pages: 288**
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### Contents

• *Laboratory Rules and First Aid* • *Introduction on Fundamentals of Analysis,* 1. Water and Waste Water Analysis, 2. Water Softening by Lime-Soda Process and Zeolite Process, 3. Fuels, 4. Combustion Calculations, 5. Lubricants, 6. Ion-Exchangers, 7. Portland Cement, 8. Analysis of Metals in Ores and Alloys, 9. Polymers, Resins and Plastics, 10. Miscellaneous • *Appendices: I. International Atomic Weights, II. Data on the Strength of Aqueous Solutions of the Common Acids and Aqueous Ammonia, III. Colour Changes and pH Range of some Indicators, IV. Molecular Weights and Equivalent Weights of some Common Reagents* • *Bibliography*

**S S Dara** is former Professor and Head, Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

## Books for Anna University




### A Textbook of Engineering Chemistry

Dr. S.S. Dara
Dr. S.S. Umare

**ISBN: 9789352830688**
**Code: 9789352830688**
**Pages: 264 | POD**
**Size: 6.5" X 9.25" (Paperback)**

#### About the Book

Engineering Chemistry is written for 1st year, 1st Semester Engineering students (all branches) of ANNA University. This book lends further support for their conviction that the engineering graduate who knows the differences in chemical properties of alternative materials and who understands the general chemical principles on which their behaviour depends will prove to be a better and more successful than one who does not.

#### Key Features

- The book is written for students keeping in view of their professional requirement into their practical life.
- The book embodies chapters which are of basic importance.
- Each chapter consists of updated information, in view of the recent developments.
- Book includes discussion of basic physiochemical principles, practical applications and significance.
- Examples given in chapters contains systematic methods of problem solving and calculations.
- Enquiring questions are given in all the chapters.

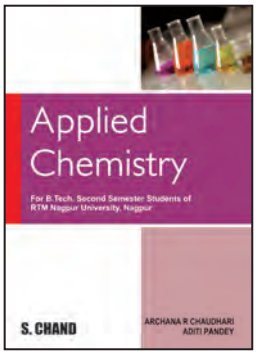
#### Contents

1. Water and Its Treatment, 2. Surface Chemistry, 3. Catalysis, 4. Alloys and Phase Rule, 5. Fuels and Combustion, 6. Energy Sources, 7. Storage Devices

Dr. S. S. Dara, M. Sc., Ph. D, Former Professor & Head of the Department of Applied Chemistry at Visvesvaraya National Institute of Technology, Nagpur.

Dr. S. S. Umare, M. Sc., Ph. D, Professor & Head of the Department of Applied Chemistry at Visvesvaraya National Institute of Technology, Nagpur.

## RTM Nagpur University




### Applied Chemistry: Semester-II

Dr. Archana R. Chaudhari &
Dr. Aditi S. Pandey

**ISBN: 9789355012258**
**Price: ₹ 200 | Pages: 232**
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#### About the Book

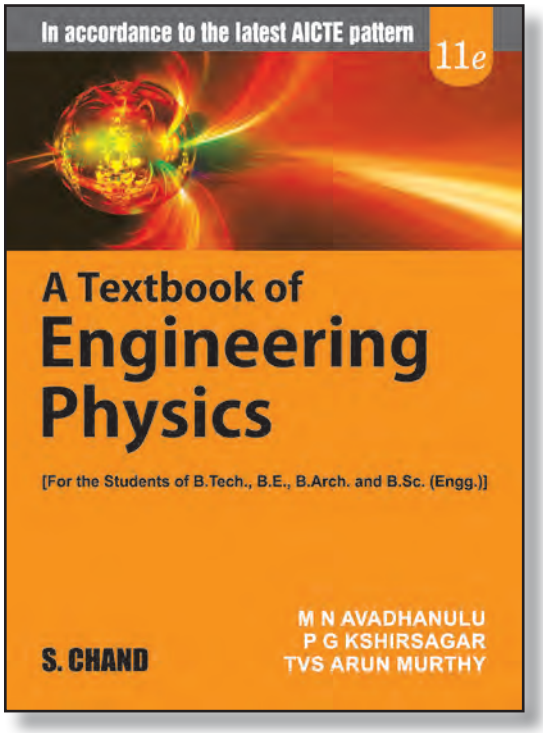
"Applied Chemistry" is written exclusively for B. Tech. Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). It includes important topics such as Periodic Properties and Atomic, Molecular Structure, Thermodynamics and Corrosion, Applications of Spectroscopic Techniques, Basic Green Chemistry and Water Technology that help the student in learning the principles of Chemistry more effectively.

#### Key Features

- Includes more than 100 figures and close to 100 "Points to remember" and "Interesting facts" to improve the students' understanding as well as retention of that information
- Close to 150 questions in the form of chapter-end pedagogy strengthen the well-explained theoretical concepts

#### Contents

Unit 1. Periodic Properties and Atomic, Molecular Structure, Unit 2. Thermodynamics and Corrosion, Unit 3. Applications of Spectroscopic Techniques, Unit 4. Basic Green Chemistry, Unit 5. Water Technology




# A Textbook of Engineering Physics, 11e

M N Avadhanulu, P G Kshirsagar &
T V S Arun Murthy

## About the Book

Primarily written for the first year undergraduate students of engineering, *"A Textbook of Engineering Physics"* also serves as a reference text for B.Sc students, technologists and practitioners.

The book explains all the relevant and important topics in an easy-to-understand manner. Forty chapters, beginning with a detailed discussion on oscillation, the book goes on to discuss optical fibres, lasers and nanotechnology. A rich pedagogy helps in understanding of every concept explained.

A book which has seen, foreseen and incorporated changes in the subject for more than 25 years, it continues to be one of the most sought after texts by the students.

## Salient Features

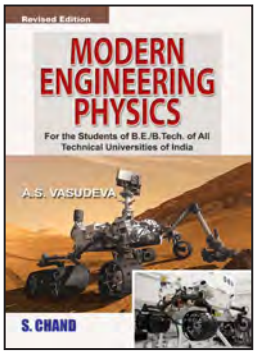
- 50 chapters ensure that every crucial concept is given due importance for this fundamental subject.
- SEVENTEEN NEW Chapters on major topics such as but not limited to Geometrical Optics, Non-linear Optics, Heat Transfer, Vacuum Technology, Quantum Statistics, Solid Stage Diodes, Superconductors, Masers, Nanotechnology and Liquid Crystals
- More than 1550 examples figures and tables aid to the concepts explained and close to 1800 chapter-end questions and problems enhance the practice quotient of the book.

**ISBN: 9789352833993 | Code: 9789352833993 | Price: ₹ 925 | Pages: 1,440 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Oscillations and Waves
2. Mechanical Properties of Solids
3. Light
4. Geometrical Optics
5. Electrostatics
6. Magnetostatics and Electrodynamics
7. Electromagnetic Waves
8. Interference
9. Diffraction
10. Polarization
11. Double Refraction and Optical Activity
12. Artificial Double Refraction
13. Architectural Acoustics
14. Ultrasonics
15. Non Destructive Testing
16. Heat Transfer
17. Elements of Thermodynamics
18. Vacuum Technology
19. Electron Emission
20. Electron Ballistics
21. Electron Optics
22. Thermoelectricity
23. Special Theory of Relativity
24. Quantum Hypothesis
25. Atomic Physics
26. Matter Waves
27. Quantum Mechanics
28. Atomic Nucleus and Nuclear Energy
29. Nuclear Instruments
30. Cosmic Rays and Elementary Particles
31. Quantum Statistics
32. Bonding in Solids
33. Crystal Growth and Crystal Defects
34. Crystal Structure
35. Conductors
36. Band Theory of Solids
37. Semiconductors
38. Solid Stage Diodes
39. Bipolar Junction Transistor
40. Dielectric Materials
41. Magnetic Materials
42. Superconductors
43. Masers
44. Lasers
45. Non-Linear Optics
46. Holography
47. Optical Fibres
48. Modern Engineering Materials
49. Nanotechnology
50. Liquid Crystals

**M N Avadhanulu** is Former Professor and Head, Department of Physics, Kavikulguru Institute of Technology & Science Ramtek (Nagpur).
**P G Kshirsagar** is Former Head of the Department of Applied Physics, Visvesvaraya National Institute of Technology, Nagpur.
**TVS Arun Murthy** is HoD, Physics S&H and Vice Principal, Joginpally BR Engineering College, Hyderabad.




## Modern Engineering Physics

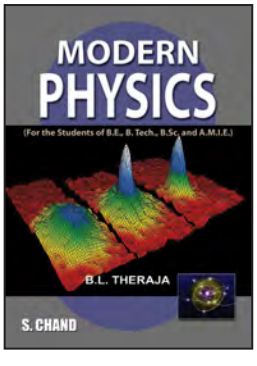
A.S. Vasudeva

**ISBN: 9788121917575**
**Code: 1010C00182**
**Price: ₹ 795 | Pages: 1,248**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

Part-I: Properties of Matter: 1. Units and Measurement, 2. Gravitation, 3. Centre of Mass and Collisions, 4. Rotational Motion, 5. Elasticity, 6. Viscosity, 7. High Vacuum Technology, 8. Theory of Relativity, Part-II: Thermal Physics: 1. Kinetic Theory of Gases, 2. Low Temperature Physics, 3. Thermometry, 4. Transmission of Heat, 5. Radiation, 6. Laws of Thermodynamics, 7. Entropy, Part-III: Optics: 1. Nature of Light, 2. Dispersion and Aberrations, 3. Eyepieces, 4. Interference, 5. Diffraction, 6. Polarization, 7. Photometry and Optical Instruments, 8. Lasers and Fibre Optics, 9. Electromagnetic Waves, Part-IV: Sound: 1. Simple Harmonic Motion, 2. Wave Motion, 3. Interference and Beats, 4. Vibration in Strings, 5. Doppler Effect, 6. Ultrasonics, Part-V: Electrostatics: 1. Electric Fields, 2. Gauss's Law and Electric Potential, 3. Capacitors, 4. Dielectrics, 5. Scalar and Vector Fields, Part-VI: Electricity and Magnetism: 1. Electromagnetism, 2. Self and Mutual Induction, 3. Magnetic Circuits and Materials, 4. Thermoelectricity and Low Resistance Measurement, Part-VII: Modern Physics: 1. General Properties of the Nucleus, 2. Nuclear Models, 3. Natural Radioactivity, 4. Alpha, Beta and Gamma Ray Spectra, 5. Nuclear Reactions and Artificial Radioactivity, 6. Interaction of Nuclear Radiation with Matter, 7. Radiation Detectors, 8. Cosmic Rays and Elementary Particles, 9. X-Rays, 10. Matter Waves and Uncertainty Principle, 11. Quantum Mechanics, 12. Crystal Structure, 13. Band Theory of Solids, 14. Metals, Insulators and Semiconductors, 15. Spectroscopy, 16. Nuclear Fission and Fusion, 17. Electron Charge and Mass Spectrographs, 18. Non-Destructive Testing, 19. Thin Films and Advance Spectroscopy, 20. Particle Accelerators, 21. Superconductivity, 22. Nanotechnology

**A S Vasudeva** is Professor & Head, Department of Physics, BBSB Engineering College, Fateh Garh Saheb, Punjab. He is former Head, Department of Physics and Applied Sciences, Guru Nanak Dev Engineering College, Ludhiana.



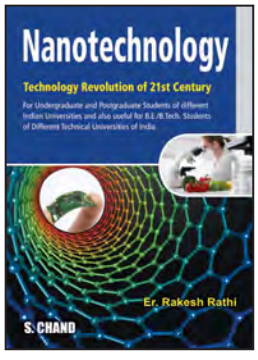

## Modern Physics, 16e

B.L. Theraja

**ISBN: 9788121901635**
**Code: 1010C00036**
**Price: ₹ 360 | Pages: 336**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Electric & Magnetic Fields, 2. The Electron, 3. The Atomic Structure, 4. Crystallography, 5. Quantum Theory, 6. Bonds in Solids, 7. Classification of Solids, 8. X-rays, 9. Waves and Particles, 10. The Atomic Nucleus, 11. Natural Radioactivity, 12. Artificial Radioactivity, 13. Nuclear Reactions, 14. Nuclear Fission and Fusion, 15. Nuclear Energy Sources, 16. Particle Accelerators, 17. Ultrasonics • *Appendices: A. Diffraction Grating, B. Values of Physical Constants, C. Table of Elements* • *Index*




## Nanotechnology: Technology Revolution of 21st Century

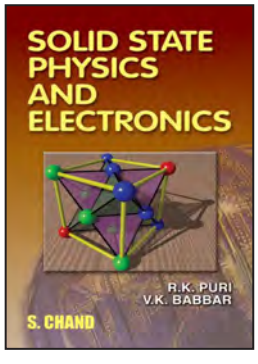
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**ISBN: 9788121930826**
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**Price: ₹ 405 | Pages: 304**
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### Contents

1. Introduction, 2. Nanotechnology Timeline, 3. Core Concept of Nanotechnology, 4. Tools to Measure and Make Nanostructure, 5. Applications of Nanotechnology, 6. Nanomedicine, 7. Nanoelectronics, 8. Nanosensing, 9. Nanomagnetics, 10. Recent Development, 11. Impact of Nanotechnology, 12. Global Scenario, 13. Future and Grand Challenges • *Appendix-A: Frequently Asked Questions with Answers* • *Appendix-B: Nano Quiz (MCQs)* • *Appendix-C: Glossary*

**Rakesh Rathi** is a master trainer in Physics with more than 14 years of experience in teaching and training in Kota.




## Solid State Physics and Electronics, 3e

R.K. Puri & V.K. Babbar

**ISBN: 9788121914758**
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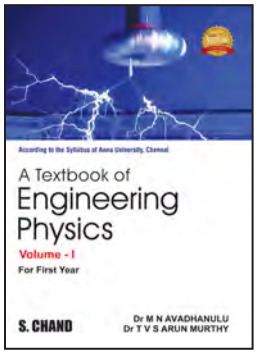
### Contents

1. Crystal Structure, 2. X-Ray Diffraction and Reciprocal Lattice, 3. Bonding in Solids, 4. Lattice Vibrations, 5. Free Electron Theory of Metals, 6. Band Theory of Solids, 7. Semiconductors, 8. Magnetism in Solids, 9. Dielectric Properties of Solids, 10. Superconductivity, 11. Junction Diodes, 12. Rectifiers, 13. Transistors and Amplifiers, 14. Oscillators, 15. Modulation and Demodulation, 16. Cathode Ray Oscilloscope, 17. Radio Communication and Television, 18. Logic Gates • *Appendix-I: Voltage and Current Sources* • *Appendix-II: Thevenin's and Norton's Theorems* • *Appendix-III: Table of Physical Constants and Conversion Factors Index* • *References* • *Index*

**R K Puri,** Ph.D., Professor, Department of Physics, Indian Institute of Technology, New Delhi.

**V K Babbar,** Ph.D., Lecturer, Department of Applied Physics, Guru Nanak Dev University, Amritsar.

## Books for Anna University




### A Textbook of Engineering Physics Volume – 1

Dr. M N Avadhanulu
Dr. T V S Arun Murthy

**ISBN: 9789352830695**
**Code: 9789352830695**
**Size: 6.5" X 9.25" (Paperback)**
**POD**

#### About the Book

The book is written as per syllabus of 1st year, 1st Semester B.E. Students of ANNA University. The book covers all the topics mentioned in the latest syllabus. It would serve as a distinct single source where the requirements of the students are given top priority and the material is molded in a student friendly style.

#### Key Features

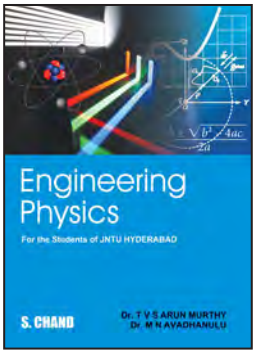
- The requirements of the students are given top priority and the material is shaped in a student-friendly style.
- The philosophy of presentation of the material in the book is based upon decades of classroom interactions.
- Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the technological aspects.
- Key terms and objective type questions, both multiple choices and fill up the blanks along with answers are included at the end of each chapter.
- Review questions are given to provide the student an idea of likely questions that appear in examinations. Solved examples are included in the text in order to expedite the learning process of students of all hues.

#### Contents

1. Properties of Matter, 2. Waves and Fiber Optics, 3. Thermal Physics, 4. Quantum Physics, 5. Crystal Physics, 6. Glossary

Dr. M N Avadhanulu, initiated research on liquid crystals for the first time in the physics department of Andhra University in 1965 and obtained his Ph. D. in 1973. In 1976, he joined Central Electronics Ltd., Sahibabad in the LCD Division. He migrated to teaching profession in 1986 and joined the Kavikulguru Institute of Technology and Science, Maharashtra.

Dr. T V S Arun Murthy, Principal NOVA college of Engineering and Technology, Vijayawada has more than two decades of teaching experience. He has authored a textbook on 'Electromagnetic Fields' published by S. Chand & Company which is prescribed as text and reference book across India. He has published 28 research papers in international journals.




### Engineering Physics

Dr. T V S Arun Murthy
Dr. M N Avadhanulu

**ISBN: 9789352834877**
**Code: 9789352834877**
**Price: ₹ 250 | Pages: 244**
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#### About the Book

The book "Engineering Physics" is as per the common syllabus for Civil, Mechanical, Automobile Engineering, ME (M), MME, Mining and Petroleum Engineering branch students pursuing their B.Tech degree course from JNTU Hyderabad, Hyderabad. The book covers all the topics mentioned in the latest syllabus. In each chapter, the fundamental concepts related to the topic are highlighted and the in-between continuity is emphasized. It would serve as a distinct single source where the requirements of the students are given top priority and the material is shaped in a student-friendly style. The presentation of the material in this book is based upon decades of classroom interactions.

#### Key Features

- The fundamental concepts relevant to the topic are highlighted.
- The proper presentation of concepts and practical applications are cited to highlight the technological aspects.
- Key terms and objective questions, both multiple choices and fill up the blanks along with answers are placed appropriately.
- Review questions are given to provide the student an idea of likely questions that appear in examinations.
- Solved examples are included in the text in order to expedite the learning process of students.

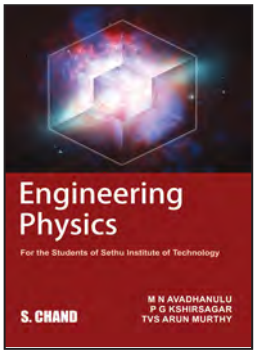
#### Contents

1. Introduction to Mechanics, 2. Harmonic Oscillations, 3. Waves in One Dimension, 4. Wave Optics, 5. Lasers and Fibre Optics, Review Questions • Multiple Choice Questions • Answers to Multiple Choice Questions • Fill up the Blanks • Answers

Dr. TVS Arun Murthy obtained Ph.D. in 1991 and has more than twenty-five years of teaching and administrative experience. He has authored a textbook on 'Electromagnetic Fields' published by S Chand & Company which is prescribed as text and reference book across India. He is a co-author of book "Engineering Physics" and "Applied Physics" written according to the syllabus of JNTUK, Kakinada. He has published 28 research papers in refereed International and National journals and attended 14 conferences and seminars at National and International level. He was convener of two National level seminars and edited the proceedings of National Seminar on 'Renewable Energy Sources and other Technologies for Rural Development' sponsored by MNES, Govt. of India.

Dr. MN Avadhanulu initiated research on liquid crystals for the first time in Physics department of Andhra University in 1965 and obtained Ph.D. in 1973. In1976, he joined Central Electronics Ltd (CEL), Sahibabad in the LCD division. He migrated to teaching profession in1986 and joined Kavikulguru Institute of Technology and Science, Ramtek, Maharashtra. He occupied number of administrative posts in the institute such as HOD, Dean (student affairs) and Dean (academic affairs). He was elected and served as member of board of studies in Applied Sciences and Humanities under the faculty of Engg. & Tech, Nagpur University during 1991-1994 and was instrumental in modernizing the syllabus of Applied Physics for B.E. He has implemented number of innovative teaching methods to improve the appreciation of Physics by the Engineering students. He has written books for Engineering and Science Graduates as per the prescribed syllabus.

## Books for Sethu Institute of Technology




### Engineering Physics: For the Students of Sethu Institute of Technology

Dr. M. N. Avadhanulu,
TVS Arun Murthy &
P G Kshirsagar

**ISBN: 9789355017826**
**Price: ₹ 500 | Pages: 528**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1This textbook has been designed to provide a single source of information for Engineering undergraduates of different specialization and provide them a solid foundation in Physics. The book meets with the requirements of undergraduate students of Physics and aptly covers the important topics such as Coulomb's Law, Principle of Superposition, Gauss' Law of Electrostatics in Free Space, Biot-Savart, Ampere's, and Gauss's Law, Maxwell's Wave Equations for Free Space, Wave Propagation in a Lossy Medium, Sound: Classification, Characteristics of Musical Sound, Reverberation Theory, Heat Conduction through Compound Media, Thermal Conductivity, Law of Conservation of Energy, Laws of Thermodynamics, Wiedemann-Franz Law, Energy Band Diagram, Semiconductors, Solid State Diodes, Dielectric and Magnetic Materials, Modern Engineering Materials, Nanotechnology, and well described the topic Liquid Crystals etc.

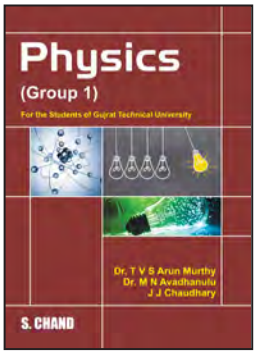
### Salient Features

- Seventeen Chapters are divided in smaller parts and sub-headings to make to reading easy from one topic to another.
- An attempt is made by blending careful presentation of fundamental concepts and methods of Physics.
- The book contains a rich pedagogy and includes:
- Close to 450 figures.
- Close to 125 in-text solved examples.
- More than 450 exercise questions..

### Contents

1. Electrostatics, 2. Magnetostatics and Electrodynamics, 3. Electromagnetic Waves, 4. Architectural Acoustics, 5. Heat Transfer, 6. Elements of Thermodynamics, 7. Conductors, 8. Band Theory of Solids, 9. Semiconductors, 10. Solid State Diodes, 11. Dielectric Materials, 12. Magnetic Materials, 13. Superconductors, 14. Optical Fibres, 15. Modern Engineering Materials, 16. Nanotechnology, 17. Liquid CrystalsLiquid Crystals

## Books for Gujarat Technical




### Physics (Group I)

Dr. T V S Arun Murthy
Dr. M N Avadhanulu
J J Chaudhary

**ISBN: 9789352835904**
**Code: 9789352835904**
**Price: ₹ 225 | Pages: 208**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

This book Physics Group I is for B.Tech and BE students of Gujarat Technological University (GTU). The book covers all the topics mentioned in the latest syllabus. It would serve as a distinct single source where the requirements of the students are given top priority and the material is molded in a student-friendly style. The philosophy of presentation of the material in the book is based upon decades of classroom interactions. In each chapter, the fundamental concepts pertinent to the topic are highlighted and the in-between continuity is emphasized. The book satisfies the thirst of the inquisitive student and at the same time, it provides material to such students whose main concern is about getting through the examinations. Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the technological aspects. Key terms and Objective questions both multiple choices and fill up the blanks along with answers are included at the end of each chapter. Review questions are given to provide the student an idea of likely questions that appear in examinations. Worked out examples are included in the text in order to expedite the learning process of students of all hues.

### Key Features

- The requirements of the students are given top priority and the material is molded in a student-friendly style.
- The philosophy of presentation of the material in the book is based upon decades of classroom interactions.
- Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the technological aspects.
- Key terms and Objective questions both multiple choices and fill up the blanks along with answers are included at the end of each chapter.
- Review questions are given to provide the student an idea of likely questions that appear in examinations. Worked out examples are included in the text in order to expedite the learning process of students of all hues.

### Contents

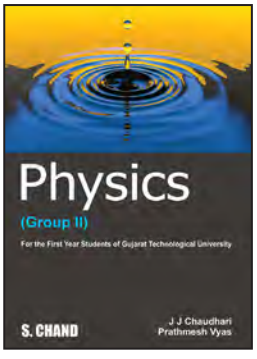
1. Properties of Matter, 2. Waves, Motion and Acoustics, 3. Ultrasonic and Non-Destructive Testing, 4. Three Phase Circuits Superconductivity, 5. Lasers

Dr. TVS Arun Murthy obtained Ph.D. in 1991 and has more than twenty-five years of teaching and administrative experience. He has authored a textbook on 'Electromagnetic Fields' published by S Chand And Company which is prescribed as text and reference book across India. He is a co-author of book "Engineering Physics" and "Applied Physics" written according to the syllabus of JNTU, Kakinada. He has published 28 research papers in refereed international and national journals and attended 14 conferences and seminars at national and international level. He was convener of two national level seminars and edited the proceedings of National Seminar on 'Renewable Energy Sources and other Technologies for Rural Development' sponsored by MNES, Govt. of India.

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Central Electronics Ltd., Sahibabad in the LCD Division. He migrated to teaching profession in 1986 and joined the Kavikulguru Institute of Technology and Science, Maharashtra.

Dr J. J. Chaudhari M.Sc. (Physics), Ph.D. Assistant professor (Physics), Science and Humanity Department Vishwakarma Government Engineering College, Chandkheda, Ahmedabad, Gujrat, India.




## Physics
## Group II

Dr J J Chaudhary
Dr. Prathmesh Vyas

**ISBN: 9789352839056**
**Code: 9789352839056**
**Price: ₹ 265 | Pages: 216**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

Physics has always been regarded as a fascinating subject by aspiring engineering students. This title covers the complete syllabus the subject in Gujarat Technological University. The basic concepts and derivations that are presented in this book are in a simple and lucid manner so that students do not find any difficulty in understating the content presented. In each module, the topics and their subtopics are logically arranged and elaborately discussed. In order to make the book more beneficial to the students, several solved examples are included in each module. At the end of each module several unsolved examples, short and long questions are included.

### Key Features

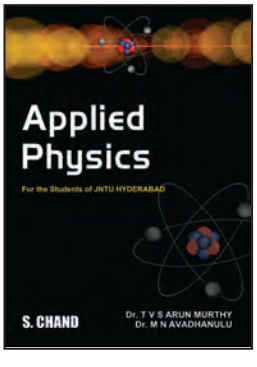
- Complete coverage of the new revised syllabus as per Gujarat Technological University.
- Simple and lucid style of content presentation.
- Large number of solved examples.

### Contents

Module - I: ELECTRONIC MATERIALS, Module - II: SEMICONDUCTORS, Module -III LIGHT-SEMICONDUCTOR INTERACTION, Module - IV: MEASUREMENTS, Module - V: SUPERCONDUCTIVITY

Dr J J Chaudhari M.Sc. (Physics), Ph.D. Assistant professor (Physics), Science and Humanity Department Vishwakarma Government Engineering College, Chandkheda, Ahmedabad, Gujrat, India.

## Book for JNTU Hyderabad




## Applied Physics :

Dr. T.V.S Arun Murthy
Dr. M. N. Avadhanulu

**ISBN: 9789355016201**
**Price: ₹ 275 | Pages: 320**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

The book is written to provide students with a distinct source of material. Their requirements are given top priority and the material is fashioned in a student-friendly style. This book explains basic principles of quantum physics and band theory of solids. It also presents fundamental concepts related to the dielectric, magnetic and energy materials in a concise and very simple way to easily grasp the concept. Each chapter is divided into smaller parts and sub-headings are provided to make the reading a pleasant journey from one interesting topic to another important topic. It offers ample coverage of Physics and Solids, Semiconductors and Devices, Dielectric, Magnetic and Energy Materials, Nanotechnology, and Laser and Fibre Optics.

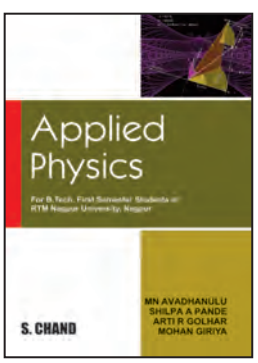
### Key Features

- Concept of the book explained in lucid style and material has been arranged logically
- Close to 275 figures, tables and solved examples for easy understanding of concepts
- More than 600 questions strengthen the well-explained the concepts

### Contents

1. Physics and Solids, 2. Semiconductors and Devices, 3. Dielectric, Magnetic and Energy Materials, 4. Nanotechnology, 5. Laser and Fibre Optics Index

## Book for RTM Nagpur University




## Applied Physics Semester-I:

M N Avadhanulu, Dr. Shilpa A. Pande, Dr. Arti R. Golhar & Dr. Mohar Giriya

**ISBN: 9789355012173**
**Price: ₹ 235 | Pages: 232**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

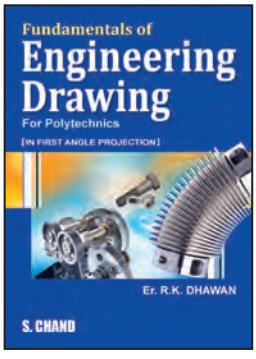
"Applied Physics" is written exclusively for B. Tech. First semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). It includes important topics such as Interference of Light, Diffraction, Compton Effect, de-Broglie's Hypothesis, Heisenberg Uncertainty Principle, Space and Cubic Lattice, Dispersion, Motion of Electron in Uniform Electric Field and Magnetic Field that help the student in learning the principles of Physics more

### Key Features

- Includes 11 Practical Experiments to improve student's understanding and develop their skills
- Question bank of 200 questions with 75 examples strengthen the well-explained theoretical concepts

### Contents

1. Wave Optics, 2. Quantum Mechanics, 3. Crystal Structure, 4. Optical Fibre, 5. Electron Optics • Practicals




## Fundamentals of Engineering Drawing,

**(In First Angle Projection)**

R.K. Dhawan

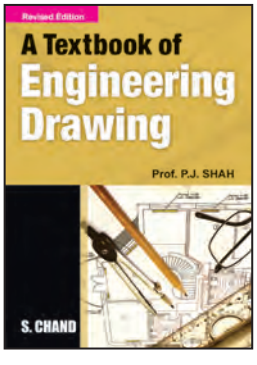
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### Contents

Section-I: 1. Introduction and Drawing Instruments, 2. Layout of Drawing Sheet, 3. Conventions, 4. Lettering, 5. Dimensioning, 6. Scales, 7. Theory of Projection and Orthographic Projection, 8. Identification of Surfaces, 9. Missing Lines and Views, 10. Sectional Views, 11. Isometric Projections, 12. Freehand Sketching, 13. Electrical and Civil Engineering Symbols, Section-II: 1. Detail and Assembly Drawings, 2. Rivets and Riveted Joints, 3. Welding, 4. Screw Threads, 5. Fastenings (Nuts and Bolts), 6. Keys, Cotters and Joints, 7. Shaft Couplings, 8. Computer Aided Drafting, Section-III: 1. Projection of Points, 2. Projection of Straight Lines, 3. Projection of Planes, 4. Projection of Solids, 5. Intersection of Surfaces, 6. Development of Surfaces • *Model Test Papers – Three*

**R K Dahwan,** M.I.E., M.I.S.T.E, is Principal Ramgarhia Institute of Engineering & Technology Satnampura, Phagwara (Punjab Technical University, Jalandhar).




## A Textbook of Engineering Drawing

P.J. Shah

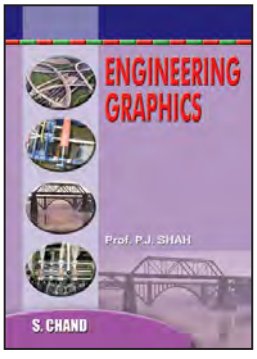
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**ISBN: 9788121941822**
**Code: 1010000551**
**Price: ₹ 650 | Pages: 720**
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### Contents

1. Drafting Equipment, 2. Sheet Sizes, Scales, Lines and Lettering, 3. Geometrical Constructions, 4. Scales, 5. Loci of Points, 6. Engineering Curves, 7. Projections, Planes of Projections and System of Projections, 8. Orthographic Projections of Points, 9. Projection of Straight Lines, 10. Projections of Planes, 11. Projections of Point, Line and Plane on Auxiliary Planes, 12. Projections of Solids, 13. Sections of Solids, 14. Development of Surfaces of Solids, 15. Interpenetration of Solids of Lines/Curves of Penetration, 16. Orthographic Projections, 17. Sectional Orthographic Projections, 18. Orthographic Reading, 19. Isometric Projection/View/Drawing (Axonometric Projection), 20. Detail and Assembly Drawings, 21. Dimensioning, 22. Limits, Fits and Tolerances, 23. Fasteners, 24. Shaft Couplings, 25. Bearings, 26. Auto CAD • *Solutions to Exercises*

**P J Shah** is Former Professor, Mechanical Engineering, L.D. College of Engineering, Ahmedabad.



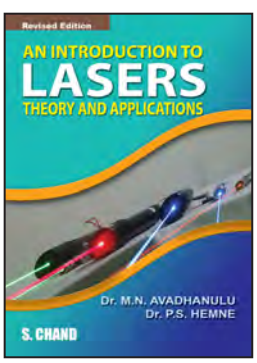

## Engineering Graphics

P.J. Shah

**ISBN: 9788121929677**
**Code: 1010000357**
**Price: ₹ 350 | Pages: 376**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Drafting Equipment, 2. Sheet Sizes, Scales, Lines and Lettering, 3. Scales, 4. Loci of Points, 5. Engineering Curves, 6. Projections, Planes of Projections and Systems of Projections, 7. Orthographic Projections of Points, 8. Projections of Straight Lines, 9. Projections of Planes, 10. Projections of Point, Line and Plane on Auxiliary Planes, 11. Projections of Solids, 12. Sections of Solids, 13. Development of Surfaces of Solids, 14. Interpenetration of Solids and Lines/Curves of Penetration



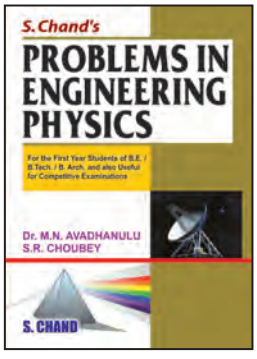

## An Introduction to Lasers (Theory and Applications)

M.N. Avadhanulu &
P.S. Hemne

**ISBN: 9788121920711**
**Code: 1016B00266**
**Price: ₹ 260 | Pages: 208**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Basic Theory, 2. Types of Lasers, 3. Laser Beam Characteristics, 4. Techniques for Control of Laser Output, 5. Applications of Lasers



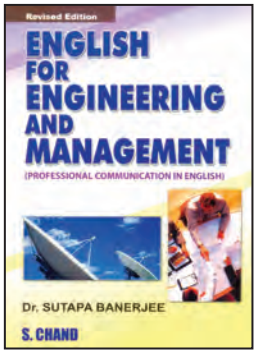

## S. Chand's Problems in Engineering Physics

M.N. Avadhanulu & S.R. Choubey

**ISBN: 9788121938990**
**Code: 1016000387**
**Price: ₹ 299 | Pages: 510**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Basic Concept of Electric and Magnetic Field, 2. Electron Ballistics, 3. Electron Emission, 4. Electron Optics, 5. Wave Motion, 6. Properties of Light, 7. Interference, 8. Diffraction, 9. Polarization, 10. Atomic Physics, 11. Lasers, 12. Structure of Solids, 13. Semiconductors, 14. Fibre Optics, 15. Nucleus and Nuclear Energy, 16. Thermoelectricity, 17. Relativity • *Exercise Problems*




## English for Engineering and Management

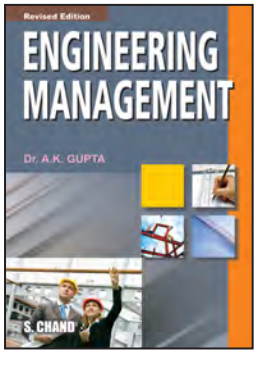
**(Professional Communication in English)**

Sutapa Banerjee

**ISBN: 9788121926034**
**Code: 1010000311**
**Price: ₹ 150 | Pages: 144**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction: • Communication as Sharing • Context of Communication • Medium of Communication • Barriers to Communication, 2. Written Communication: • Grammar: Correction of Sentences • Transformation of Sentences • Word Formation • Single Word for a Group of Words • Fill in the Blank • Active/Passive Voice • Direct and Indirect Narration • Proposal • Report Writing • Business Correspondence • Vocabulary • Essays, 3. Comprehension: • Antonyms, Synonyms, Idioms, 4. Oral Communication: • Extempore • Speech • Conversation • Public Speaking, 5. Group Discussion: • Interviews, 6. Conclusion • *Question Papers*




## Engineering Management, 2e

A.K. Gupta

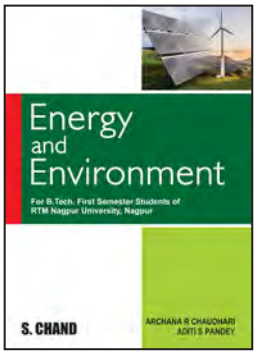
**ISBN: 9788121928120**
**Code: 1010B00330**
**Pages: 488 | POD**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. The Challenge of Management, 2. Organization Planning, Design and Development, 3. Management Planning and Control, 4. Human Resource Planning and Management, 5. Facility Location and Plant Layout, 6. Maintenance Planning and Management, 7. Materials Management, 8. Financial Management, 9. Managerial Economics, 10. Total Quality Management, 11. Marketing Management, 12. Project Management, 13. Information Technology and Management • Self-Assessment Questions • Selected References • *Appendix-I: Control Charts and Acceptance Sampling & Appendix-II: Multiple Choice/Short Questions*

**A K Gupta** is Director, The Institution of Engineers (India).

## RTM Nagpur University




## Energy and Environment Semester-I

Dr. Archana R. Chaudhari & Dr. Aditi S. Pandey

**ISBN: 9789355012098**
**Price: ₹ 145 | Pages: 184**
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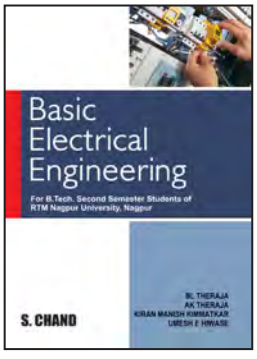
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## Basic Electrical Engineering: Semester-II (RTM) Nagpur University

B L Theraja, Kiran Manish Kimmatkar, Umesh E. Hiwase & A K Theraja

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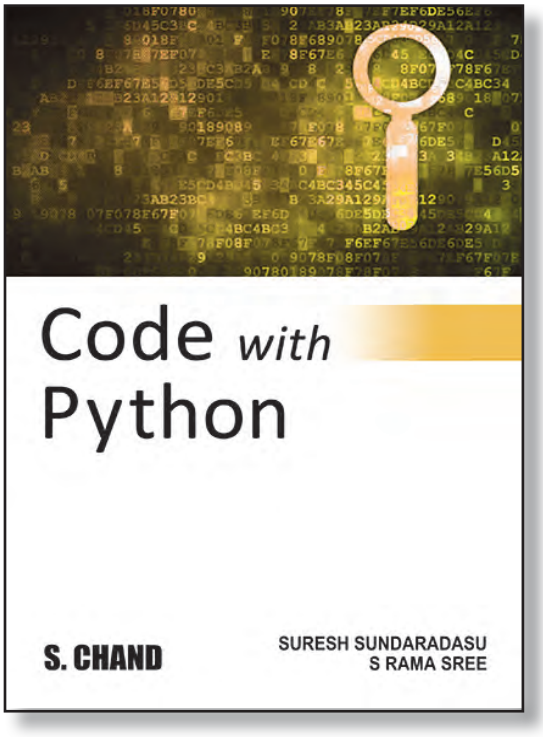
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Dr. M N Avadhanulu initiated research on liquid crystals for the first time in Physics department of Andhra University in 1965 and obtained Ph.D. in 1973. In1976, he joined Central Electronics Ltd (CEL), Sahibabad in the LCD division. He migrated to teaching profession in1986 and joined Kavikulguru Institute of Technology and Science, Ramtek, Maharashtra. He occupied number of administrative posts in the institute such as HOD, Dean (student affairs) and Dean (academic affairs). He was elected and served as member of board of studies in Applied Sciences and Humanities under the faculty of Engg. & Tech, Nagpur University during 1991-1994 and was instrumental in modernizing the syllabus of Applied Physics for B.E. He has implemented number of innovative teaching methods to improve the appreciation of Physics by the Engineering students. He has ritten books for Engineering and Science Graduates as per the prescribed syllabus.




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Suresh Sundaradasu & S Rama Sree

New

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- Python is used to develop various applications of any stream and is not restricted only to computer science.

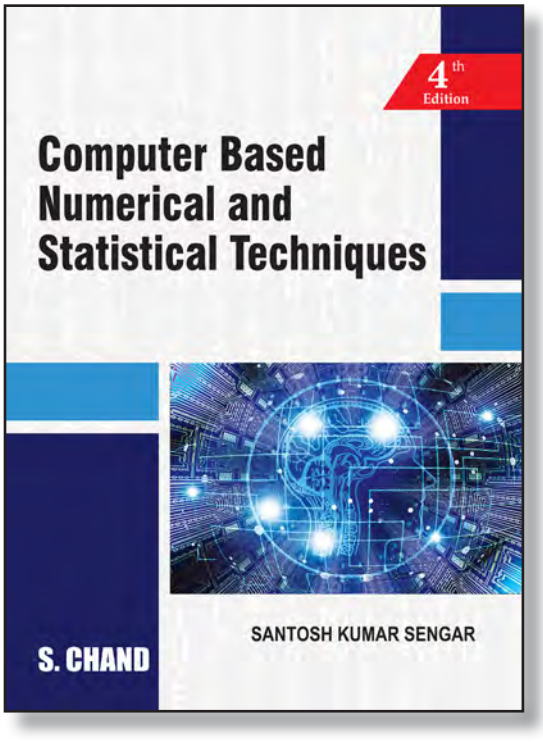
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Dr. Suresh Sundaradasu: Professor and HOD, Department of Computer Science and Engineering, Eluru College of Engineering and Technology, Duggirala, Eluru, Andhra Pradesh, India.

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# Computer Based Numerical and Statistical Techniques, 4e

Santosh Kumar Sengar

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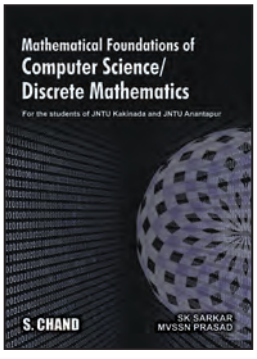
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11. Numerical Solution of Ordinary Differential Equations
12. Statistical Computation and Quality Control
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**Santosh Kumar** is PhD. (AMU Aligarh) and Associate Professor, Department of Mathematics and Statistics, School of Natural Science and Mathematics, University of Dodoma, Tanzania.




## Mathematical Foundations of Computer Science /Discrete Mathematics: For JNTUK and JNTUA

Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad

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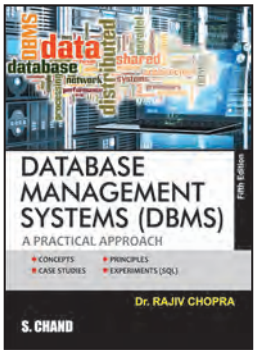
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**Dr. S. K. Sarkar:** M.Sc. (Math), M.Tech (Comp.Sc.), Ph.D., FIE., Ex. Sr. Professor, Indian Railways Institute of Mechanical and Electrical Engineering, Jamalpur

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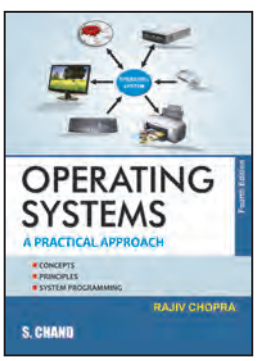
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**Rajiv Chopra** is Associate Professor, CSE Department, Guru Tegh Bahadur Institute of Technology (GTBIT), affiliated to Guru Gobind Singh Indraprastha University, New Delhi. He is also a CCEH – (Crezone Certified Ethical Hacker).




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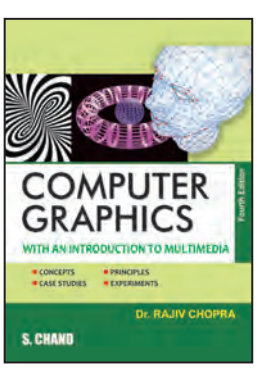
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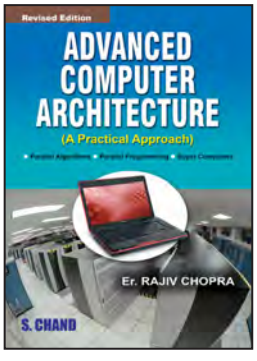
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& Surfaces, Unit-IV: 15. Animation, 16. Solid Modelling, 17. GKS, Unit-V: 18. Multimedia, 19. Multimedia Authoring Tools, 20. Case Studies; a. Python Graphics; b. Director • *Appendices: A. Syllabus, B. Question Papers, C. Glossary, D. Experiments in CG Lab, E. Experiments in Multimedia Lab, F. Projects (CG Lab), G. Bibliography*

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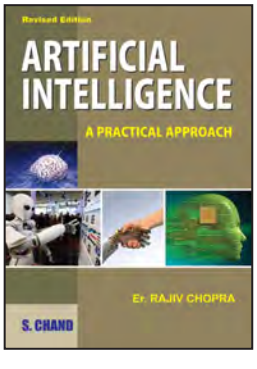
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## Artificial Intelligence: A Practical Approach

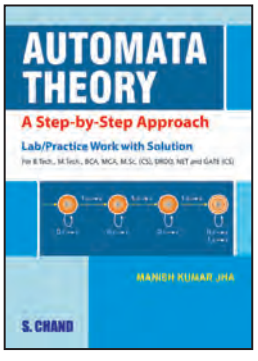
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## Automata Theory

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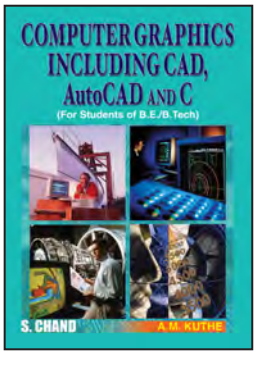
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**Manish Kumar Jha** is Assistant Professor, GD Goenka World Institute, Lancaster University.



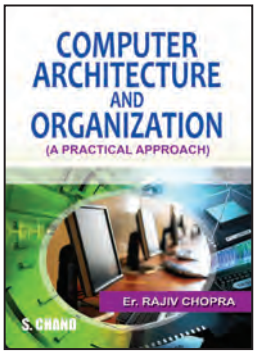

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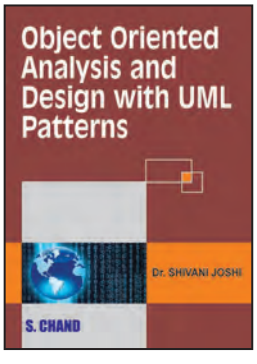
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**Rajiv Chopra** is Associate Professor, CSE Department, Guru Tegh Bahadur Institute of Technology (GTBIT), affiliated to Guru Gobind Singh Indraprastha University, New Delhi. He is also a CCEH – (Crezone Certified Ethical Hacker).




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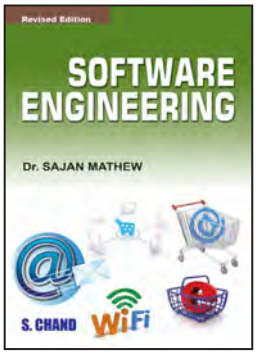
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**Shivani Joshi** is PhD and Associate Professor, Guru Nanak Institute of Management, New Delhi (Affiliated to Guru Gobind Singh Indraprastha University, Delhi).




## Software Engineering, 2e

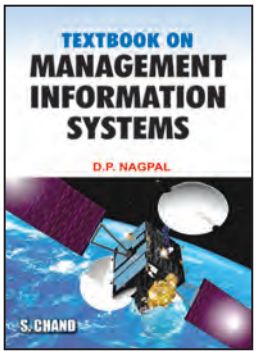
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**Sajan Mathew** is Professor of Information Systems, Alliance University, Bangalore.




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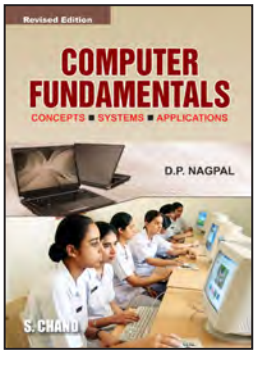
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**U S Pandey** is Associate Professor, School of Open Learning, University of Delhi and Former Professor and Director-IT, Vivekananda Institute of Professional Studies (Affiliated to GGSIP University, Delhi).

**Saurabh Shukla** is M.Tech, M.Phil, MBA and Senior Software Consultant.



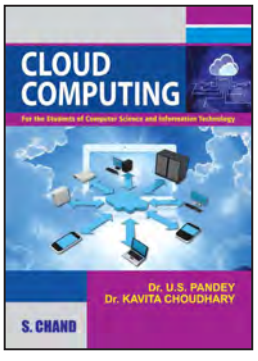

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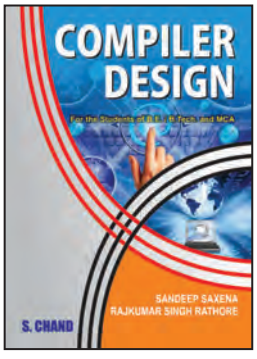
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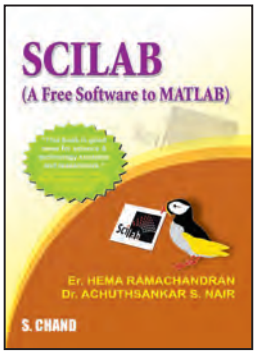
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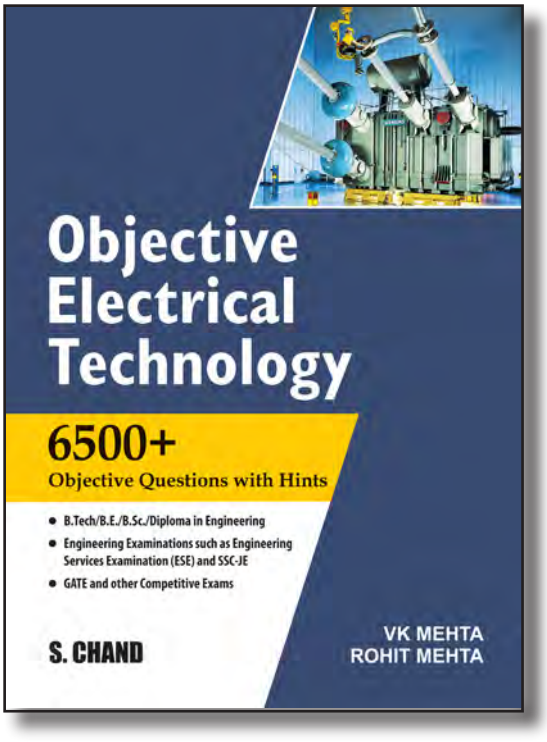
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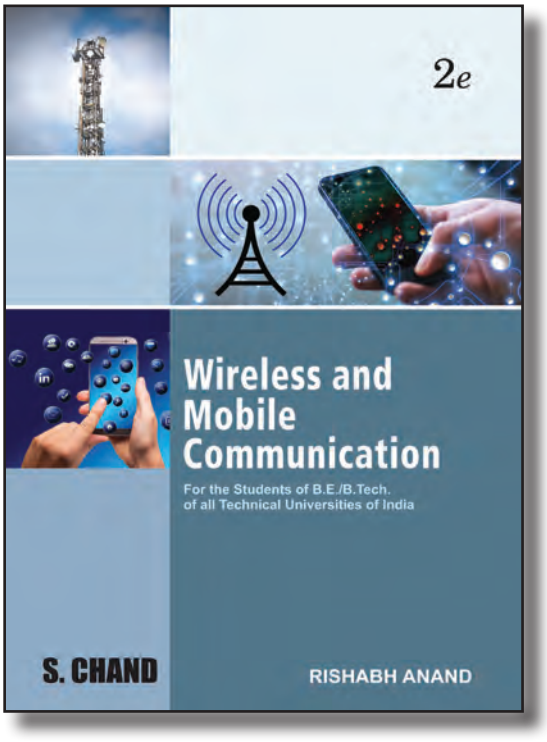
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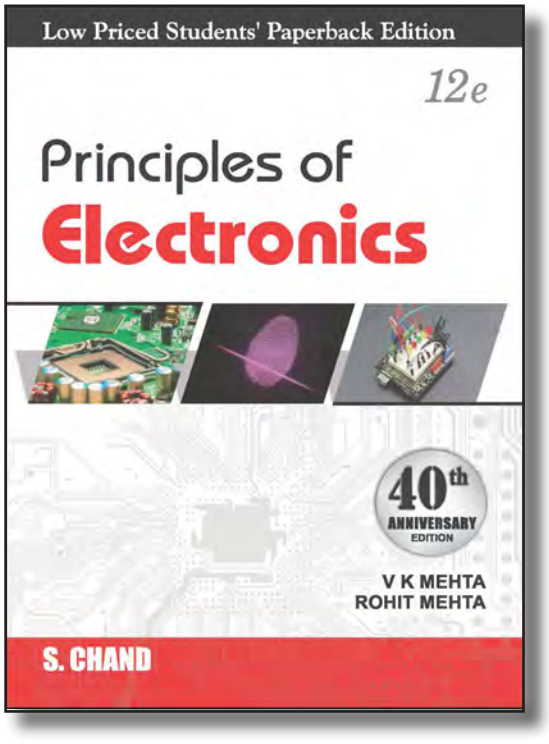
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V.K. Mehta & Rohit Mehta

## About the Book

In its 40th year, "Principles of Electronics" remains a comprehensive and succinct textbook for students preparing for B. Tech, B. E., B.Sc., diploma and various other engineering examinations. It also caters to the requirements of those readers who wish to increase their knowledge and gain a sound grounding in the basics of electronics.

Concepts fundamental to the understanding of the subject such as electron emission, atomic structure, transistors, semiconductor physics, gas-filled tubes, modulation and demodulation, semiconductor diode and regulated D.C. power supply have been included, added and updated in the book as full chapters to give the reader a well-rounded view of the subject.

## Salient Features

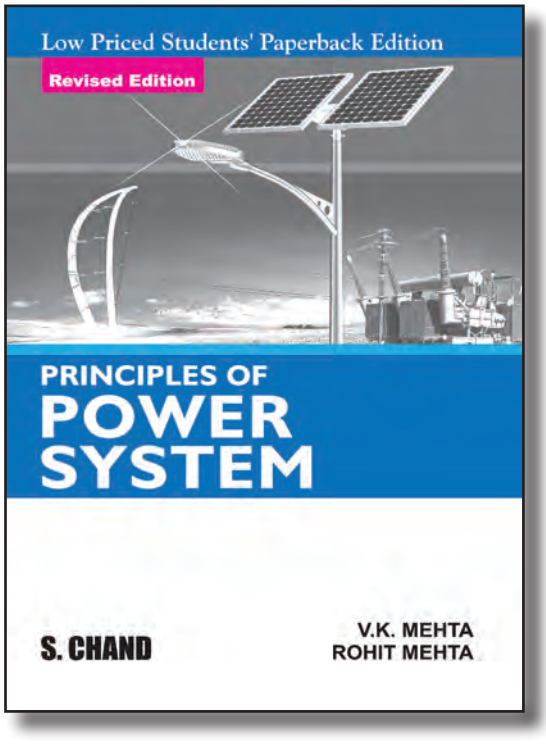
- Each chapter focuses on the core concepts and clearly elucidate the fundamental principles, methods, and circuits involved in electronics.
- 1850+ figures, tables and examples provide comprehensive support to all concepts explained.
- Close to 1500 chapter-end questions in 4 different formats provide apt practice to all concepts explained.

**ISBN: 9789352838363 | Price: ₹ 825 | Pages: 1040 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Atomic Structure
3. Semiconductor Physics
4. Semiconductor Diode
5. Special-Purpose Diodes
6. Transistors
7. Transistor Biasing
8. Single Stage Transistor Amplifiers
9. Multistage Transistor Amplifiers
10. Transistor Audio Power Amplifiers
11. Amplifiers with Negative Feedback
12. Sinusoidal Oscillators
13. Transistor Tuned Amplifiers
14. Modulation and Demodulation
15. Regulated D.C. Power Supply
16. Solid-State Switching Circuits
17. Field-Effect Transistors
18. Silicon Controlled Rectifiers
19. Power Electronics
20. Electronic Instruments
21. Integrated Circuits
22. Hybrid Parameters
23. Operational Amplifiers
24. Digital Electronics
• Index

LOW PRICED STUDENTS' PAPERBACK EDITION




# Principles of Power System, (LPSPE)

V.K. Mehta & Rohit Mehta

## About the Book

*"Principles of Power System"* is a comprehensive textbook for students of engineering. It also caters to the requirements of those readers who wish to increase their knowledge and gain a sound grounding in power systems as a whole.

Twenty six chapters succinctly sum up the subject with topics such as Supply and Distribution Systems, Fault Calculations (Symmetrical and Unsymmetrical), Voltage Control, Fuses and Circuit Breakers giving the learner an understanding of the subject and an orientation to apply the knowledge gained in real world problem solving.

A book which has seen, foreseen and incorporated changes in the subject for more than 30 years, it continues to be one of the most sought after texts by the students.

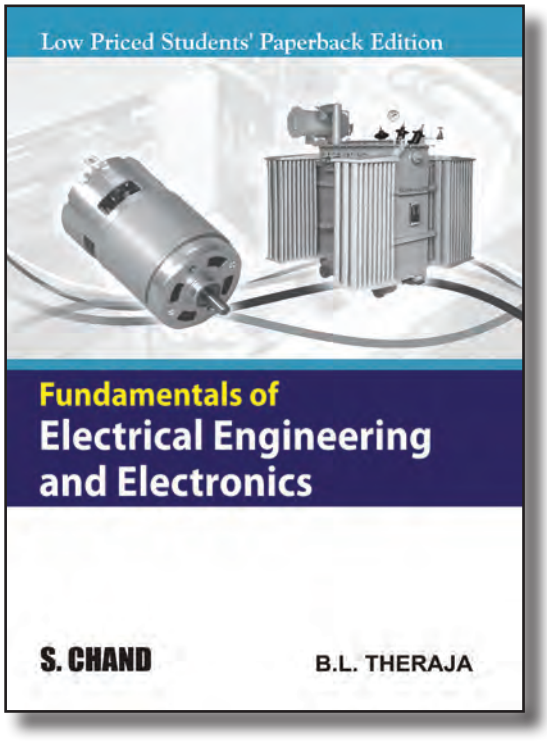
## Salient Features

- Conceptual understanding is given preference with theories being explained in clear and concise points.
- Close to 800 figures and examples provide comprehensive support to all concepts explained.
- More than 600 in-text tutorial problems and chapter-end questions and MCQs provide apt practice to all concepts explained.

**ISBN: 9789355010773 | Price: ₹ 625 | Pages: 624 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
2. Generating Stations
3. Variable Load on Power Stations
4. Economics of Power Generation
5. Tariff
6. Power Factor Improvement
7. Supply Systems
8. Mechanical Design of Overhead Lines
9. Electrical Design of Overhead Lines
10. Performance of Transmission Lines
11. Underground Cable
12. Distribution Systems – General
13. D.C. Distribution
14. A.C. Distribution
15. Voltage Control
16. Introduction to Switchgear
17. Symmetrical Fault Calculations
18. Unsymmetrical Fault Calculations
19. Circuit Breakers
20. Fuses
21. Protective Relays
22. Protection of Alternators and Transformers
23. Protection of Bus-bars and Lines
24. Protection Against Over Voltages
25. Sub-Stations
26. Neutral Grounding
- *Index*




# Fundamentals of Electrical Engineering and Electronics (LPSPE)

B.L. Theraja

## About the Book

*"Fundamentals of Electrical Engineering and Electronics"* is a useful book for undergraduate students of electrical engineering and electronics as well as B.Sc. Electronics. The book discusses concepts such as Network Analysis, Capacitance, Electromagnetic Induction, Motors Circuits and Diodes in an easy to relate and thereby understand manner.

Designed in accordance with the syllabi of most major universities, the book is an essential resource for anyone aspiring to learn the fundamentals and teaches students much about the subject itself.

A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the most sought after texts by the students.

## Salient Features

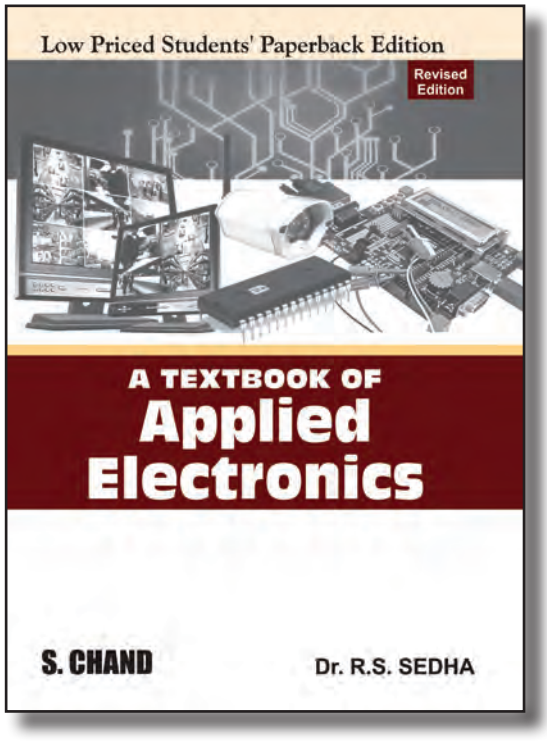
- 41 chapters ensure that the topical coverage remains in-depth.
- Presence of more than 1800 Tables, Examples, Figures and Highlights make it easy for students to understand the concepts better.
- More than 1250 questions of different types help the practice quotient of the subject.

**ISBN: 9789355010599 | Price: ₹ 699 | Pages: 864 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Electric Current & Ohm's Law
2. Division of Current
3. Network Analysis
4. Work, Power & Energy
5. Electrostatics
6. Capacitance
7. Magnetism & Electromagnetism
8. Electromagnetic Induction
9. Magnetic Hysteresis
10. D.C Generators
11. Generator Characteristics
12. D.C. Motor
13. Speed Control of D.C. Motors
14. Chemical Effects of Current
15. Electrical Instruments and Measurements
16. A.C. Fundamentals
17. Series A.C. Circuits
18. Parallel A.C. Circuits
19. Complex Algebra and A.C. Circuits
20. Three Phase Circuits
21. Transformer
22. Three Phase Induction Motor
23. Single-Phase Motors
24. Alternators
25. Synchronous Motor
26. Q and A on Electric Machinery
27. Semi-Conductor Physics
28. Semi-Conductor Diodes
29. Optoelectronic Devices
30. Bipolar Junction Transistors
31. Load Line and Biasing Circuits
32. Transistor Equivalent Circuits and Models
33. Transistor Amplifiers
34. Field Effect Transistors
35. Thyristors
36. Digital Electronics
37. Sine Wave Oscillators
38. Analog and Digital Communication
39. Vacuum Tubes and Gas Valves
40. Electron Ballistics
41. Illumination
- *Index*

LOW PRICED STUDENTS' PAPERBACK EDITION




# A Textbook of Applied Electronics (LPSPE)

R.S. Sedha

## About the Book

For close to 30 years, *"A Textbook of Applied Electronics"* has been a comprehensive text for undergraduate students of Electronics and Communications Engineering. The book comprises of 35 chapters, all delving on important concepts such as structure of solids, DC resistive circuits, PN junction, PN junction diode, rectifiers and filters, hybrid parameters, power amplifiers, sinusoidal oscillators, and time base circuits.

In addition, the book consists of several chapter-wise questions and detailed diagrams to understand the complex concepts of applied electronics better. This book is also becomes an essential-read for aspirants preparing for competitive examinations like GATE and NET.

## Salient Features

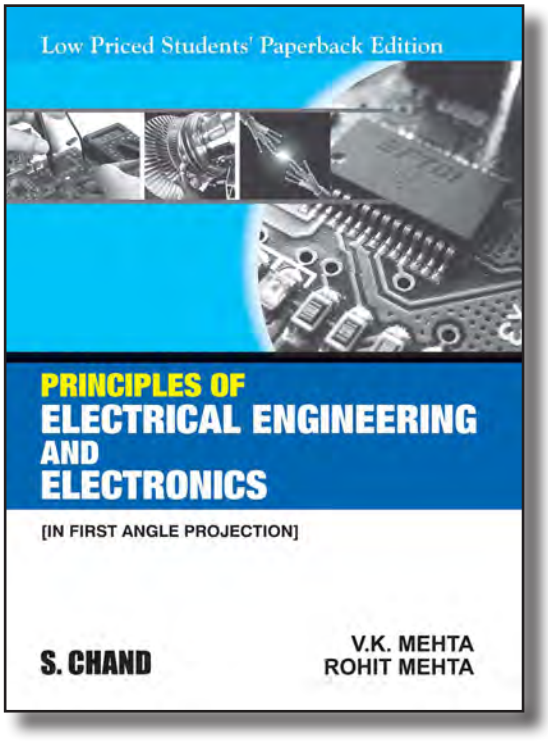
- Concepts such as Gray code, Tristate gate, Duality principle, Karnaugh-map (five-variable and six-variable), NMOS and CMOS Invertor and Binary multiplier circuit among others have been added to make the text current in nature
- Close to 1800 tables, examples and figures assist the concepts explained
- Close to 2400 questions provide ample practice thereby supporting the theory

**ISBN: 9789355010681 | Price: ₹ 765 | Pages: 1,200 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Introduction
1. Introduction
2. Structure of Solids
3. Electricity and Ohm's Law
4. DC Resistive Circuits
5. Kirchhoff's Laws and Network Theorems
6. A.C. Fundamentals
7. Passive Circuit Elements
8. Circuits Control & Protective Devices
9. Voltage and Current Sources
10. Semiconductors
11. PN Junction
12. PN Junction Diode
13. Special Purpose Diodes and Opto-Electronic Devices
14. Bipolar Junction Transistors
15. BJT Characteristics
16. Field-Effect Transistors
17. Thyristors
18. Integrated Devices and Circuits
19. Rectifiers and Filters
20. Regulated Power Supplies
21. Controlled Rectifiers
22. BJT Biasing and Stabilization
23. Low and High Frequency BJT Models
24. Single-Stage BJT Amplifiers
25. Hybrid Parameters
26. Multistage BJT Amplifiers
27. Power Amplifiers
28. Tuned Amplifiers
29. Feedback Amplifiers
30. Field-Effect Transistor Amplifiers
31. Sinusoidal Oscillators
32. Non-sinusiodal Oscillators
33. Wave Shaping
34. Time Base Circuits
35. Operational Amplifiers (OP-Amps)
35. Basic Op-Amp Applications
- *Appendix*
- *Index*

**R.S. Sedha** is Ph.D. (U.K.), Life Fellow IETE (Delhi), Senior Member, IEEE, School of Engineering, Republic Polytechnic, Singapore.




# Principle of Electrical Engineering and Electronics (LPSPE)

V.K. Mehta & Rohit Mehta

## About the Book

*"Principles of Electrical Engineering and Electronics"* is a comprehensive book for undergraduate engineering course in Electrical and Electronics Engineering. For more than 20 years, the book successfully continues to cover the fundamental theory of Electrical Engineering explaining about electricity, D.C. Circuits, Magnetism and Electromagnetic Induction before moving on to applications such as D.C. Generators and Motors among other important concepts.

## Salient Features

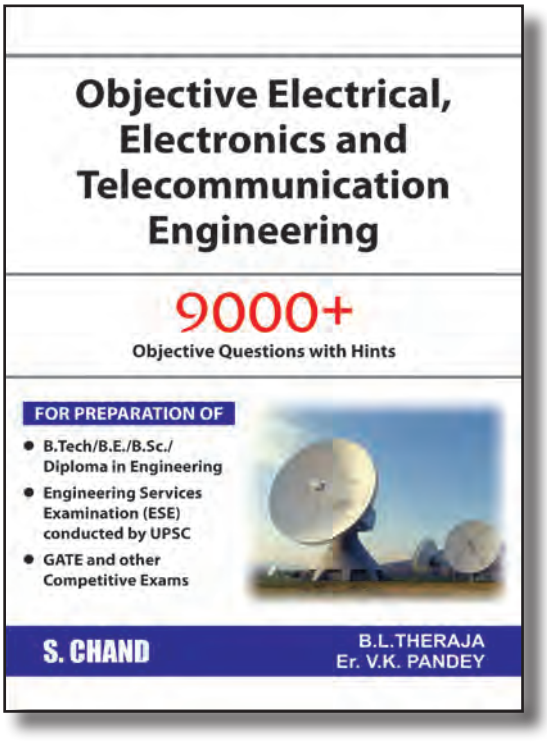
- Conceptual understanding is given preference with theories being explained in clear and concise points.
- 1800+ figures and examples provide comprehensive support to all concepts explained.
- More than 1000 in-text tutorial problems and chapter-end MCQs provide apt practice to all concepts explained.

**ISBN: 9789352837199 | Price: ₹ 650 | Pages: 960 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Fundamentals of Current Electricity
2. D.C. Circuits
3. D.C. Network Theorems
4. Units—Work, Power and Energy
5. Electrostatics
6. Capacitors
7. Magnetism and Electromagnetism
8. Magnetic Circuits
9. Electromagnetic Induction
10. D.C. Generators
11. D.C. Motors
12. Chemical Effects of Electric Current
13. A.C. Fundamentals
14. Series A.C. Circuits
15. Phasor Algebra
16. Parallel A.C. Circuits
17. Three-Phase Circuits
18. Transformers
19. Three-Phase Induction Motors
20. Single-Phase Motors
21. Synchronous Generators (Alternators)
22. Synchronous Motors
23. Electrical Instruments and Electrical Measurements
24. Atomic Structure
25. Semiconductor Physics
26. Semiconductor Diode
27. Bipolar Junction Transistors
28. Transistor Amplifiers
29. Sinusoidal Oscillators
30. Field Effect Transistors
31. Power Electronics
- *Index*

LOW PRICED STUDENTS' PAPERBACK EDITION




# Objective Electrical, Electronic and Telecommunication Engineering, 6e

B.L. Theraja & V K Pandey

## About the Book

•Comprehensive material for IES/IAS/IPS/GATE/DRDO/CSIR/ISRO/BARC and other Competitive Examinations.

•Emphasis had long back shifted to written test based on objective type questions. The book has two sections. Section I includes 16 chapters of Electrical Engg. and Section II includes 17 chapters of Electronics and Telecommunications Engg. with full detailing; which includes approximately 10,000 objective type questions with answers.

•Complete solutions for various competitive exams is also provided for the convinience of the examinees.

•Two Practice papers at end of each section is another highlights of the book.

•The comprehensive course material would give the candidate a fairly good idea that book will find its right place in the academic world of Electrical; Electronics & Telecommunication Engineering..

## Salient Features

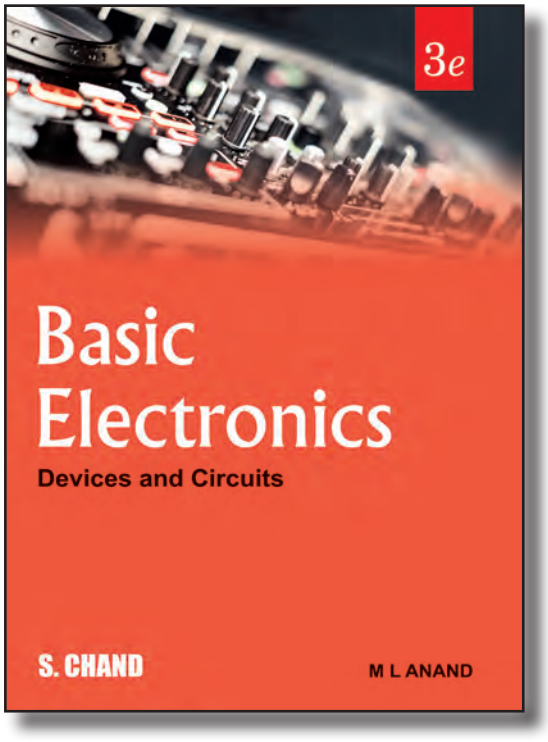
- More than 9000 questions (including 650+ figures) provide rigorous practice to students and aspirants for examinations.
- Four practice papers (2 for each section) provide additional exam preparation as well as Chapter-wise Paper Solutions of latest Competitive Examinations..

**ISBN: 9788121925716 | Code: 1010D00037 | Price: ₹ 795 | Pages: 508 | Size: 6.75" X 9.5" (Paperback)**

## Contents

Section-I: Electrical Engineering:
1. Basic Concepts of Electricity
2. Network Analysis
3. Electro Statics
4. Electromagnetism
5. Complex A.C. Circuits
6. Harmonics & Transients
7. D.C. Machines
8. Transformers – Single & Three Phase
9. Induction Motors
10. Alternators
11. Synchronous Motors
12. Materials and Components
13. Electrical and Electronic Measurements
14. Power System
15. Utilisation of Electrical Energy
16. Control System
• *Practice Paper-I* • *Practice Paper-II*

Section-II: Electronics and Telecommunications Engineering:
1. Semiconductor Physics and Diodes
2. Diode Circuits
3. Bipolar Junction Transistor
4. BJT Amplifiers and Oscillators
5. FET and FET Amplifiers
6. Operational Amplifier and its Applications
7. Digital Circuits and Microprocessors
8. Power Semi-Conductor Devices and their Applications
9. Probability and Random Variables
10. Analog Communication System
11.Digital Communication System
12. Transmission Lines and Waveguides
13. Antennas
14. Radar Engineering and Satellite Communication
15. Microwave Devices and Circuits
16. Television Engineering
17. Discrete Time Signals and Systems Practice
• *Paper-I*
• *Practice Paper-II*
• *Chapter-wise Paper Solutions of latest Competitive Examinations*




# Basic Electronics: Devices and Circuits, 3e

M.L. Anand

## About the Book

For close to 20 years, Basic Electronics: Devices and Circuits has provided fundamental knowledge of the subject to all students. Each chapter focuses on the core concepts and clearly elucidate the fundamental principles, methods and circuits involved in electronics.

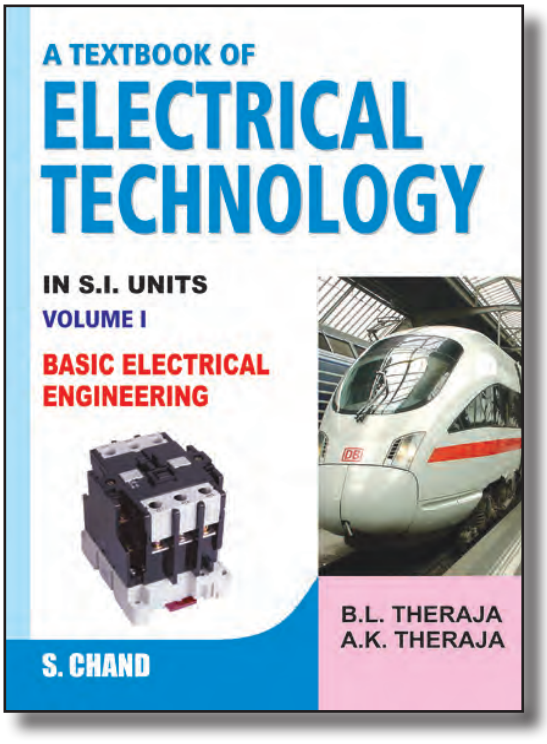
## Salient Features

- New chapters on "Time Base Circuits", "Digital Electronics & Microprocessors" and "Transducers" have been added for the readers interested in knowing about latest developments in the fields.
- Rich Pedagogy:
  - 1000+ figures aid to the concepts explained.
  - Close to 2000 Review, Objective and Short Questions with Answers provide comprehensive practice of all topics.
- Book-end solved and unsolved numerical problems taken from previous examinations have been given to make student familiar with the exam pattern.

**ISBN: 9789385676321 | Code: 1010B00278 | Price: ₹ 650 | Pages: 920 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Basic Concepts
2. Electronic Materials and Components
3. Constant Voltage and Constant current Sources
4. Electron Emission
5. Vacuum Tubes
6. Gas-filled Tubes
7. Semiconductor Physics
8. Semiconductor Diode and Rectifiers Including Vacuum Tube Rectifiers
9. Zener and Special Purpose Diodes
10. Bipolar or Bijunction Transistors
11. Transistor Biasing and Thermal Stabilization
12. Single Stage (Small Signal) Transistor Amplifiers and Hybrid Parameters
13. Multistage Transistor Amplifiers
14. Large Signal Amplifiers [Audio and Video Power Amplifiers]
15. Tuned Voltage Amplifiers
16. Vacuum Tube Amplifiers
17. Feedback Theory
8. Sinusoidal Oscillators
19. Switching & Wave shaping Circuits and Non-sinusoidal Oscillators
20. Regulated D.C. Power Supply and Special Supplies
21. Field Effect Transistors
22. Thyristors and UJT
23. Integrated Circuits
24. Operational Amplifiers (Op-Amps)
25. Timer IC
26. Modulation and Demodulation
27. Electronic Instrumentation
28. Optoelectronic (Optical) Devices
29. Time Base or Sweep Circuits
30. Phase Locked Loop (PLL) and Voltage Controlled Oscillator (VCO)
31. Introduction to Digital Electronics and Microprocessors
32. Transducers
33. Cellular and Mobile Communication System
- Additional Solved and Unsolved Numerical Problems




# A Textbook of Electrical Technology In SI Units – Volume I (Basic Electrical Engineering) 23e

B.L. Theraja & A.K. Theraja

## About the Book

*"A Textbook of Electrical Technology: Volume I"* elaborately covers all the basic concepts of Electrical Engineering.

The book discusses and explains various theories related to electrical engineering ranging from electric circuits to capacitors and different types of AC Circuits. The book also explains concepts of Harmonics and Fourier series. The chapters consist of various exercises, examples and multiple illustrations that aid in understanding the subject better.

A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the most sought after texts by the students.

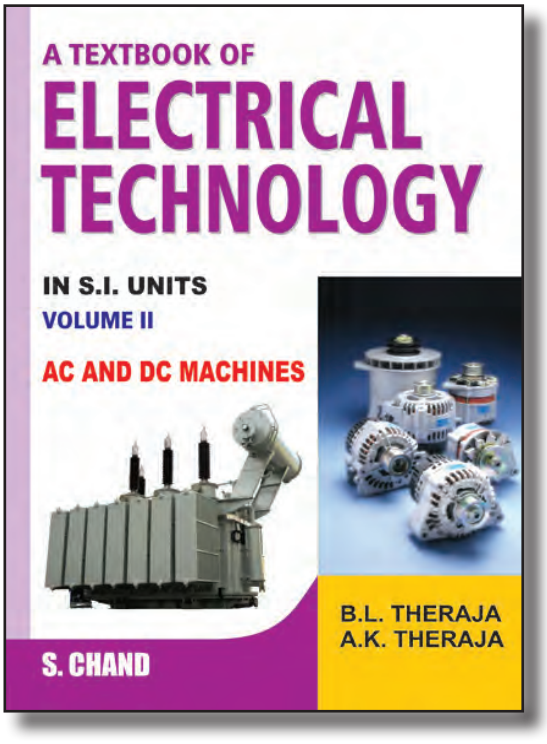
## Salient Features

- Aptly divided in 24 chapters, the text covers all basic concepts of Electrical Engineering.
- Close to 2000 figures and examples provide ample aid to the concepts explained.
- More than 900 practice questions (most asked in various examinations) ascertain the level of understanding of concepts.

**ISBN: 9788121924405 | Code: 1010B00292 | Price: ₹ 895 | Pages: 884 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Electric Current and Ohm's Law
2. D.C. Network Theorems
3. Work, Power and Energy
4. Electrostatics
5. Capacitance
6. Magnetism and Electromagnetism
7. Electromagnetic Induction
8. Magnetic Hysteresis
9. Electrochemical Power Sources
10. Electrical Instruments and Measurements
11. A.C. Fundamentals
12. Complex Numbers
13. Series A.C. Circuits
14. Parallel A.C. Circuits
15. A.C. Network Analysis
16. A.C. Bridges
17. A.C. Filter Networks
18. Circle Diagrams
19. Polyphase Circuits
20. Harmonics
21. Fourier Series
22. Transients
23. Symmetrical Components
24. Introduction to Electrical Energy Generation
- *Index*




# A Textbook of Electrical Technology In SI Units – Volume II (AC and DC Machines) 23e

Multicolour Edition

B.L. Theraja & A.K. Theraja

## About the Book

*"A Textbook of Electrical Technology: Volume II"* elaborately covers the topics regarding AC and DC machines, which is a part of Electrical Technology. Electrical technology, as a subject, covers various divisions of electrical engineering like basic electrical engineering, electronics, control systems, instrumentation and communication systems.

The book discusses and explains various theories related to AC and DC machines. Chapters such as three phase transformers, D.C. motors and alternators coupled with various exercises, examples, and multiple illustrations aid in understanding the subject better.

A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the most sought after texts by the students.

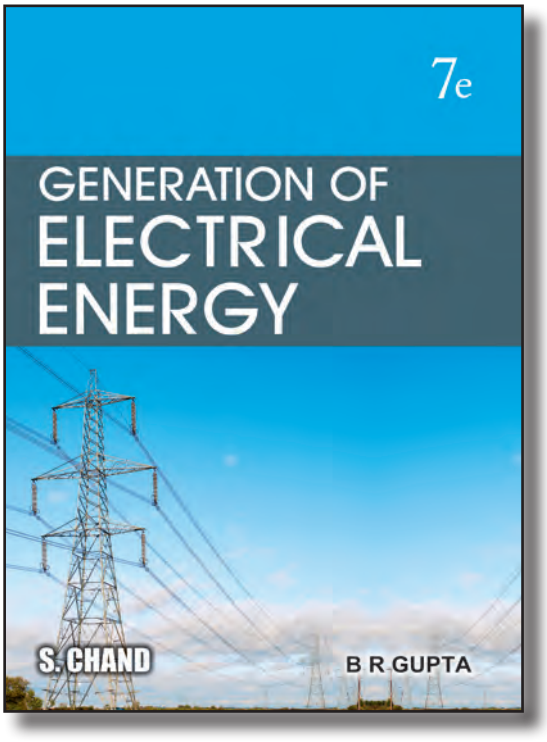
## Salient Features

- Aptly divided in 15 chapters, the text covers all basic concepts of AC and DC machines.
- Close to 1300 figures and examples provide ample aid to the concepts explained.
- Close to 600 practice questions (most asked in various examinations) ascertain the level of understanding of concepts.

**ISBN: 9788121924375 | Code: 1010A00293 | Price: ₹ 725 | Pages: 720 | Size: 6.75" X 9.5" (Paperback)**

## Contents

25. Elements of Electro-mechanical Energy Conversion
26. D.C. Generators
27. Armature Reaction and Commutation
28. Generator Characteristics
29. D.C. Motor
30. Speed Control of D.C. Motors
31. Testing of D.C. Machines
32. Transformer
33. Transformer: Three Phase
34. Induction Motor
35. Computation and Circle Diagrams
36. Single-Phase Motors
37. Alternators
38. Synchronous Motor
39. Special Machines
- *Index*




# Generation of Electrical Energy, 7e

B.R. Gupta

## About the Book

*"Generation of Electrical Energy"* is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field.

For more than 30 years, the book has been very useful – however, the subject itself is now rejuvenated with important new developments. With this in view, the all new 7th edition covers conventional topics such as load curves, steam generation, hydro-generation parallel operation as well as new topics such as new sources of energy generation, hydrothermal coordination and static reserve reliability evaluation among others.

## Salient Features

- A new chapter on "Power Trading" has been added which will be helpful to understand how to ensure the needed supply of energy and protect from supply shortages by trading of power.
- All generation data for Capacity, Electrical energy, Gas Turbine Plants, Geothermal plants and Captive Power Plants has been updated throughout the book
- Test Point Questions have been added at the end of each chapter for students to practice
- An appendix has been added which lists the latest developments in Coal Fired Steam Plants across India

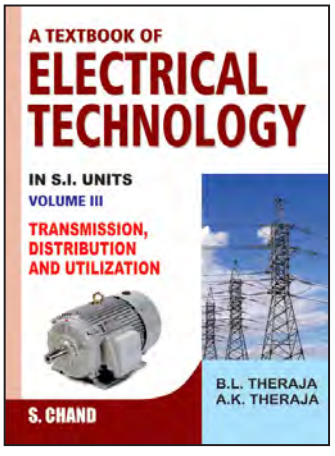
**ISBN: 9789352533817 | Code: 9789352533817 | Price: ₹ 750 | Pages: 616 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Introduction
2. Loads and Load Curves
3. Power Plant Economics
4. Tariffs and Power Factor Improvement
5. Selection of Plant
6. Diesel and Gas Turbine Plants
7. Thermal Power Plants
8. Hydro-electric Plants
9. Nuclear Power Stations
10. Economic Operation of Steam Plants
11. Hydro-thermal Co-ordination
12. Parallel Operation of Alternators
13. Major Electrical Equipment in Power Plants
14. System Interconnections
15. New Energy Sources
16. Environmental Aspects of Electric Energy Generation
17. Generating Capacity Reliability Evaluation
18. Cogeneration
19. Energy Conservation
20. Energy Audit
21. Demand Side Management
22. Energy and Sustainable Development
23. Captive Power Generation
24. Distributed Power Generation
25. Electricity Deregulation
26. Power Trading [New Chapter]

- *Appendix-A: Coal Fired Steam Power Plants in India (above 1000 MW Capacity)*
- *Appendix-B: Year Wise Plant Capacity in India*
- *Appendix-C: Year Wise Growth of Installed Capacity of Renewable Energy Sources in India*
- *Appendix-D: Comparison of Different Types of Power Plants*
- *Appendix-E: Objective Type (Multiple-Choice) Questions*
- *Appendix-F: Energy Conversion Factors*
- *Appendix-G: Calorific Values of Different Fuels*
- *Appendix-H: Temperature and Pressure Conversion Factors*
- *Index*

**B.R. Gupta** is MIE (India) and Senior Member IEEE (USA). He is ex-Professor, Electrical Engineering, Punjab Engineering College, Chandigarh.




## A Textbook of Electrical Technology In SI Units – Volume III (Transmission, Distribution and Utilization) 23e

B.L. Theraja & A.K. Theraja

Multicolour Edition

### About the Book

Electrical technology, as a subject, covers various divisions of electrical engineering like basic electrical engineering, electronics, control systems, instrumentation and communication systems.

For close to 60 years, *"A Textbook of Electrical Technology: Volume III {Transmission, Distribution and Utilization}"* discusses and explains various theories related to Transmission, Distribution and Utilization aspects of Electrical technology. Coverage of topics such as Rating & Service Capacity and Distribution Automation as full chapters illustrate the depth provided within the text in a succinct manner.

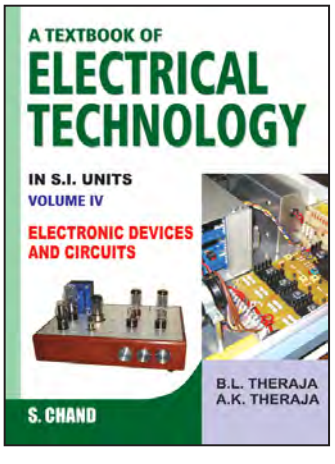
### Salient Features

- 11 Chapters aptly cover the important concepts of the subject.
- More than 650 figures, examples and pictorial depictions aid to the concepts explained.
- Close to 1100 in-text problems and chapter-end questions add to the practice of the students.

**ISBN: 9788121924900 | Code: 1010000294 | Price: ₹ 695 | Pages: 468 | Size: 6.75" X 9.5" (Paperback)**

### Contents

40. D.C. Transmission and Distribution, 41. A.C. Transmission and Distribution, 42. Distribution Automation, 43. Electric Traction, 44. Industrial Applications of Electric Motors, 45. Rating and Service Capacity, 46. Electronic Control of AC Motors, 47. Electric Heating, 48. Electric Welding, 49. Illumination, 50. Tariffs and Economic Considerations • *Index*




Instructor's Resource available

## A Textbook of Electrical Technology In SI Units – Volume IV (Electronic Devices and Circuits) 24e

B.L Theraja & A.K. Theraja

Multicolour Edition

### About the Book

Electrical technology, as a subject, covers various divisions of electrical engineering like basic electrical engineering, electronics, control systems, instrumentation and communication systems.

For close to 60 years, *"A Textbook of Electrical Technology: Volume IV {Electronic Devices and Circuits}"* discusses and explains various theories related to Electronic Devices and Circuits of Electrical technology. Coverage of topics such as Amplifiers and Power Supplies as chapters illustrate the depth provided within the text in a succinct manner.

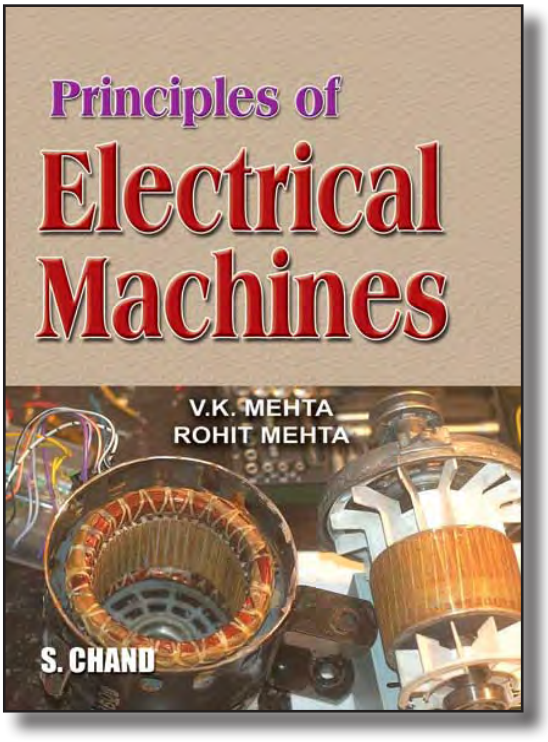
### Salient Features

- 23 Chapters aptly cover all important concepts of the subject.
- More than 1600 figures, examples and pictorial depictions aid to the concepts explained.
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51.Semiconductor Physics, 52. P-N Junction Diode, 53. Optoelectronic Devices, 54. Special Diodes, 55. D.C. Power Supplies, 56. Regulated Power Supply, 57. Bipolar Junction Transistor, 58. Load Lines and DC Biased Circuits, 59. Transistor Equivalent Circuit and Models, 60. Single-Stage Transistor Amplifiers, 61. Multistage and Feedback Amplifiers, 62. Feedback Amplifier, 63. Field Effect Transistors, 64. Breakdown Devices, 65. Sinusoidal and Non-sinusoidal Oscillators, 66. Modulation and Demodulation, 67. Integrated Circuits, 68. OP-AMP and its Applications, 69. Number Systems and Codes, 70. Logic Gates, 71. Boolean Algebra and Logic Families, 72. Flip-Flops and Related Devices, 73. Electronic Instruments • *Index*




# Principles of Electrical Machines, 2e

V.K. Mehta & Rohit Mehta

## About the Book

For over 15 years *"Principles of Electrical Machines"* is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity.

Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

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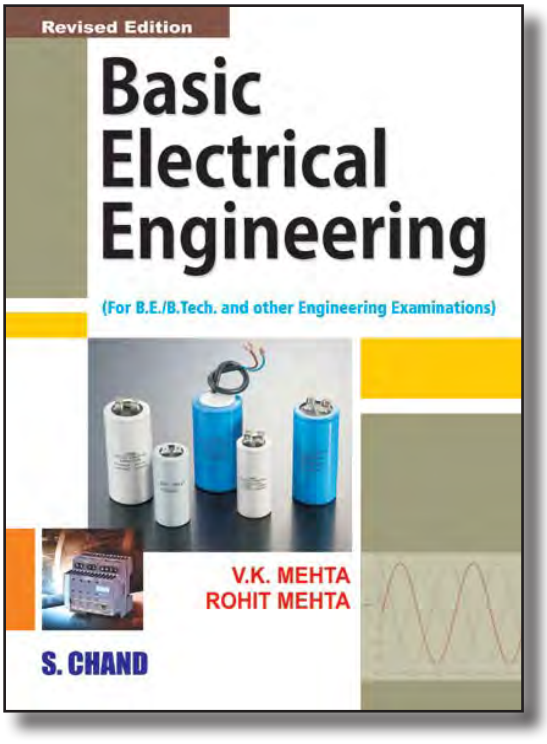
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6. Speed Control of D.C. Motors
7. Testing Of D.C. Machines
8. Transformer
9. Three-Phase Induction Motors
10. Circle Diagrams
11. Single-Phase Motors
12. Alternators
13. Synchronous Motors
14. Special-Purpose Electric Machines

- *Index*




# Basic Electrical Engineering, 14e

V.K. Mehta & Rohit Mehta

2 Colour Edition

## About the Book

For close to 30 years, *"Basic Electrical Engineering"* has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject.

Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

## Salient Features

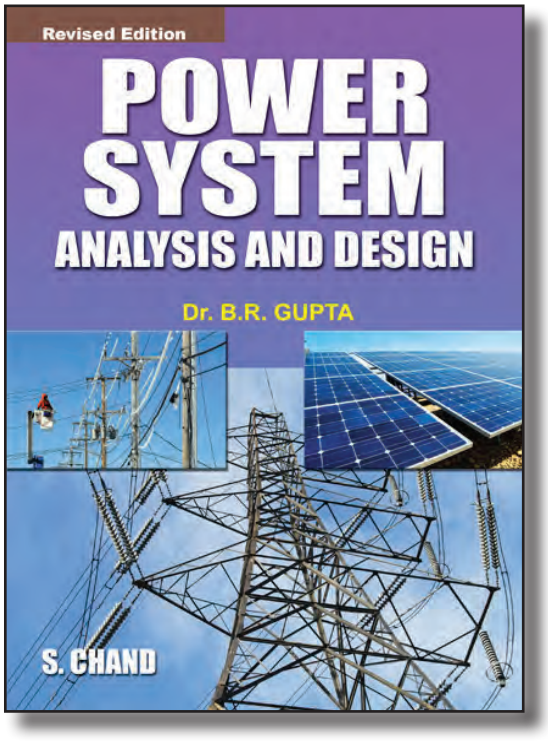
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6. Capacitance and Capacitors
7. Magnetism and Electromagnetism
8. Electromagnetic Induction
9. Magnetic Circuits
10. Chemical Effects of Electric Current
11. A.C. Fundamentals
12. Series A.C. Circuits
13. Phasor Algebra
14. Parallel A.C. Circuits
15. Polyphase Circuits
16. Electrical Instruments and Electrical Measurements
17. A.C. Network Analysis

- *Index*




# Power System: Analysis and Design, 6e

B.R. Gupta

## About the Book

For close to 20 years, *"Power System: Analysis and Design"* has been serving as a complete text for students of Electronics and Communication Engineering as well as those pursuing courses in transmission, distribution, stability, load flow, surge-phenomena, fault studies, travelling waves and design of transmission systems.

Divided in 25 chapters and aided with ample pedagogical features, the text not only explains the concepts lucidly but also helps the student retain them.

## Salient Features

- Chapters on Generator, Transformer and Load Models, Economic Operation of Power System and Unit Commitment, Symmetrical Components, Unsymmetrical Faults and Load Frequency and MVAR Voltage Control further add context to an ever-evolving subject.
- More than 1100 Tables, Figures, Examples and short summaries aid to the theory explained.
- Close to 1150 questions (including Job Interview Questions) supplement the practice quotient of the text.

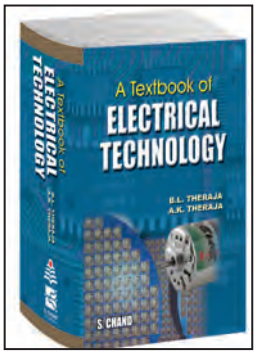
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8. Interference between Power and Communication Lines
9. Underground Cables
10. Load Flow Studies
11. Economic Operation of Power System and Unit Commitment
12. Power System Transients
13. Power System Stability
14. Extra High Voltage Transmission
15. HDVC Transmission
16. Distribution
17. Symmetrical Faults
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21. Design of Transmission Lines
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- *Appendix-A: Aluminium Conductors Steel Reinforced (ACSR) IS: 378-1976*
- *Appendix-B: An Introduction to Matrices*
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- *Index*

**B.R. Gupta** is MIE (India) and Senior Member IEEE (USA). He is ex-Professor, Electrical Engineering, Punjab Engineering College, Chandigarh.




## A Textbook of Electrical Technology

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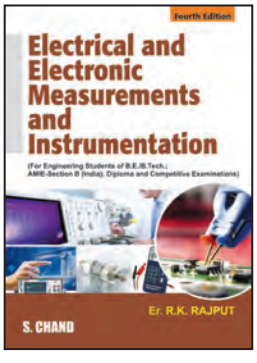
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## Electrical and Electronic Measurements and Instrumentation, 4e

R.K. Rajput

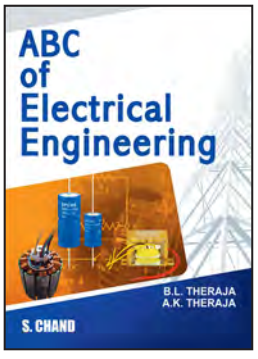
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**Er. R.K. Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.



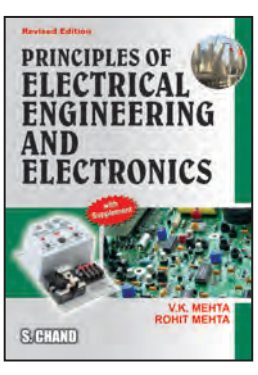

## ABC of Electrical Engineering

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## Principles of Electrical Engineering and Electronics

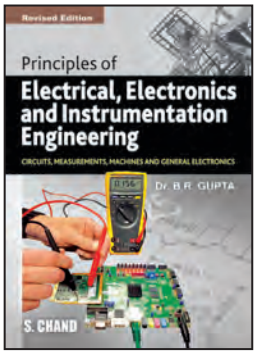
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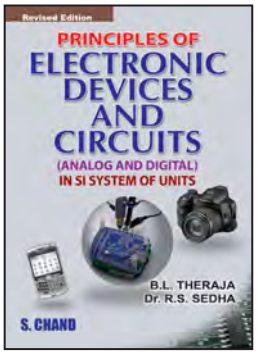
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**B.R. Gupta** is MIE (India) and Senior Member IEEE (USA). He is ex-Professor, Electrical Engineering, Punjab Engineering College, Chandigarh.




## Principles of Electronic Devices and Circuits (Analog and Digital)

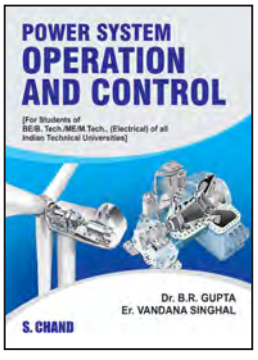
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**R S Sedha** is PhD (UK), FIETE, MIEEE and Program Chair, School of Engineering, Republic Polytechnic, Singapore.




## Power System Operation and Control, 2e

B R Gupta &
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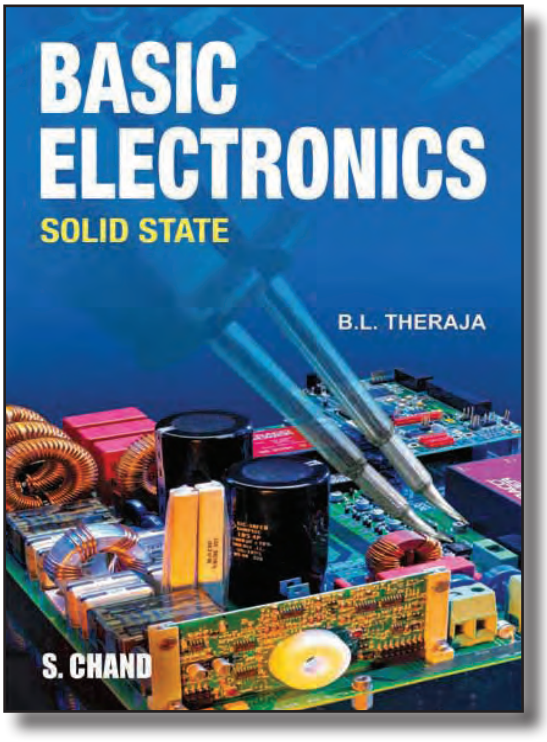
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**B.R. Gupta** is MIE (India) and Senior Member IEEE (USA). He is ex-Professor, Electrical Engineering, Punjab Engineering College, Chandigarh.

**Vandana Singhal,** is M.E. and Assistant Director Central Electricity Authority, New Delhi.




# Basic Electronics: Solid State 5e

B.L. Theraja

Multicolour Edition

## About the Book

For more than 30 years "Basic Electronics: Solid State" has been a useful book for undergraduate students of electronics and electrical engineering as well as B.Sc. Electronics. The book discusses concepts such as Circuit Fundamentals, Kirchoff's Laws, Network Theorems, Passive Circuit Elements, Energy Source, and other related topics.

Designed in accordance with the syllabi of most major universities, the book is an essential resource for anyone aspiring to learn how to use electronic components and teaches readers much about the logic behind solid state circuit design.

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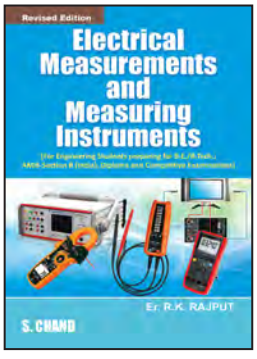
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8. A.C. Fundamentals
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21. Transistor Equivalent Circuits and Models
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24. Decibels and Frequency Response
25. Feedback Amplifiers
26. Field Effect Transistors
27. Breakdown Devices
28. Sinusoidal Oscillators
29. Non-sinusoidal Oscillators
30. Modulation and Demodulation
31. Integrated Circuits
32. Number Systems
33. Logic Gates
34. Boolean Algebra
35. Logic Families
36. Transducers
37. Electronic Instruments
38. Fibre Optics

- *Index*




## Electrical Measurements and Measuring Instruments 2e

R.K. Rajput

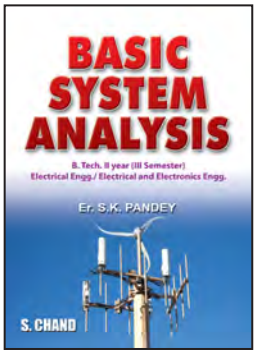
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**R.K. Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




## Basic System Analysis

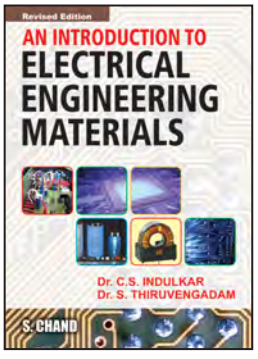
S.K. Pandey

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**S.K. Pandey** is Assistant Professor & Head Electrical Engineering Department, SP Memorial Institute of Technology, Allahabad




## An Introduction to Electrical Engineering Materials 5e

C.S. Indulkar &
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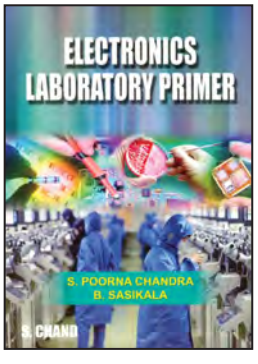
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**C.S. Indulkar** is alumni IIT Kharagpur, PhD. (Manchester) and Life Senior Member IEEE, F.I.E. (India). He is Associate of the Manchester College of Science & Technology and Former Professor & Head, Electrical Engineering Department (IIT Delhi).

**S. Thiruvengadam** is PhD. (IIT Delhi) and Former Professor & Head, Electrical Engineering Department, National Institute of Technology, Calicut.




## Electronics Laboratory Primer 3e

S. Poorna Chandra &
B. Sasikala

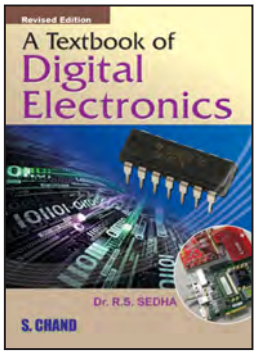
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**S.Poorna Chandra** is MISTE, FIETE, MIE, MIEEE and Professor & Head, Department of Biomedical Engineering SSN College of Engineering, Chennai.

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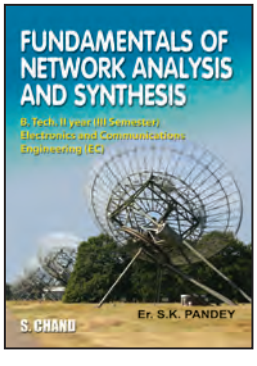
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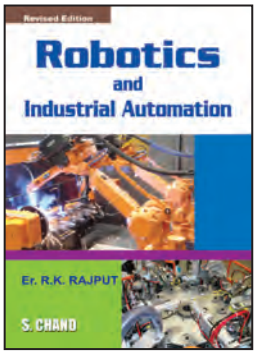
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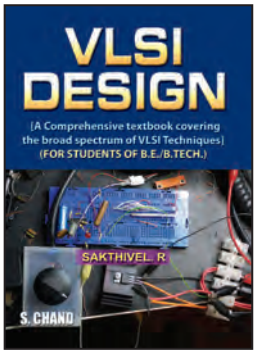

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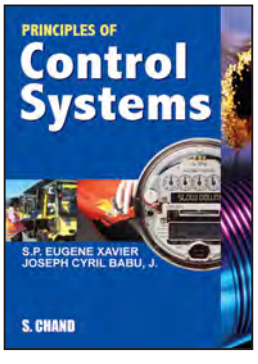
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**R Sakthivel** is Senior Lecturer in the School of Electrical Sciences, Vellore Institute of Technology University (VIT University), Vellore.




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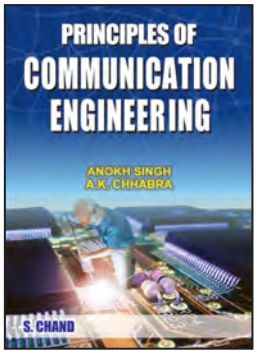
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of Control Systems, 10. Design and Compensation of Control Systems, 11. State Variable Analysis • *Objective Type Questions with Answers* • *University Question Papers* • *Appendix: Table of Laplace Transforms* • *Bibliography*

**S.P. Eugene Xavier** is at the Education & Research Department, Infosys Technologies, Chennai.




## Principles of Communication Engineering 17e

Anokh Singh & A.K. Chhabra

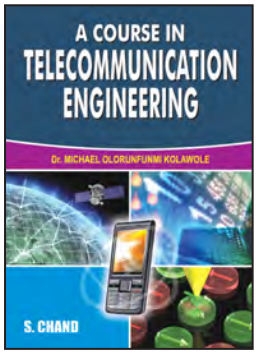
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**Anokh Singh** is Professor, Department of Applied Electronics and Microwave Technology Pusa Institute, New Delhi.

**A.K. Chhabra,** MISTE, Professor in Department of Electronics Engineering Directorate of Training and Technical Education, New Delhi.




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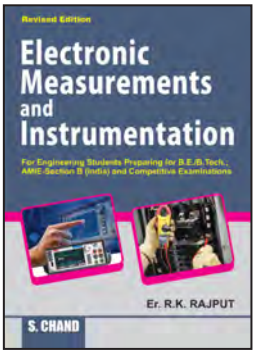
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**Michael Olorunfumi Kolawole** is Managing Director, Jolade Pvt. Ltd., Melbourne and Adjunct Professor of Communication Engineering of the Federal University of Technology, Akure, Nigeria.




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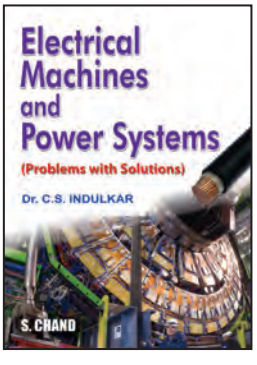
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**R.K. Rajput** is former principal Punjab College of Information Technology and Thapar Polytechnic College.




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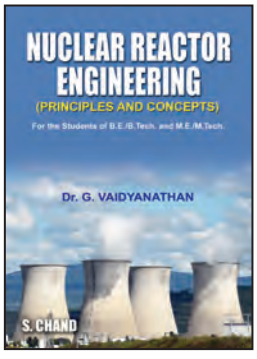
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**C. S. Indulkar** is alumni IIT Kharagpur, PhD. (Manchester) and Life Senior Member IEEE, F.I.E. (India). He is Associate of the Manchester College of Science & Technology and Former Professor & Head, Electrical Engineering Department (IIT Delhi).




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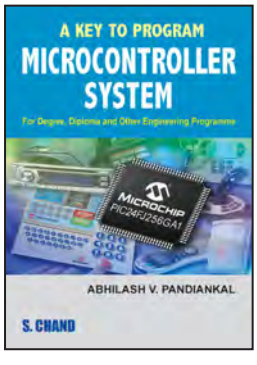
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**G. Vaidyanathan** is Visiting Professor, Department of Nuclear Science & Engineering, SRM University, Chennai and Former Director, Fast Reactor Technology, Department of Atomic Energy, Kalpakkam.




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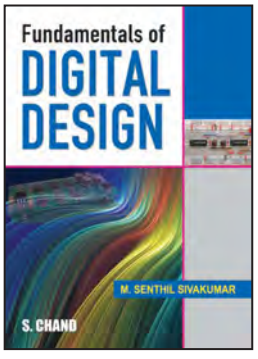
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**Abhilash V. Pandiankal** is Lecturer, Department of Electronics, Mar Augusthinose College (Affiliated to MG University), Ramapuram, Kottayam.




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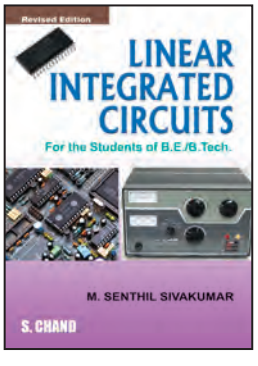
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**Senthil M. Sivakumar** is Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Puducherry and formerly at St. Joseph University in Tanzania.




## Linear Integrated Circuits

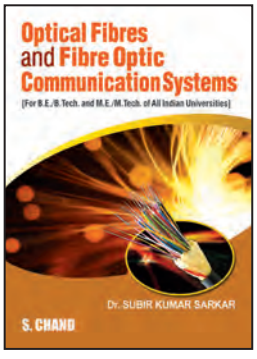
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**M. Senthil Sivakumar** is Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Puducherry and formerly at St. Joseph University in Tanzania.



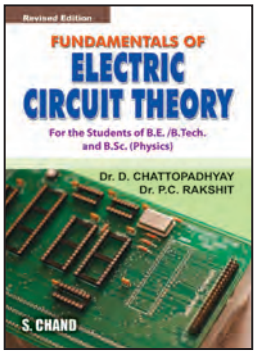

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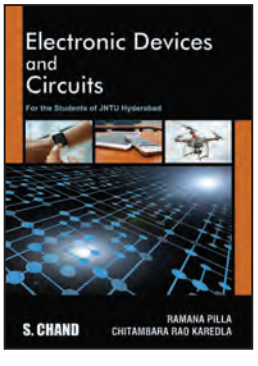
**N.N. Jani,** Former Head, Department of Computer Science, Saurashtra University, Rajkot.

**Kamaljit I Lakhtaria,** Lecturer, MCA Department, Atmiya Institute of Technology & Science, Rajkot.

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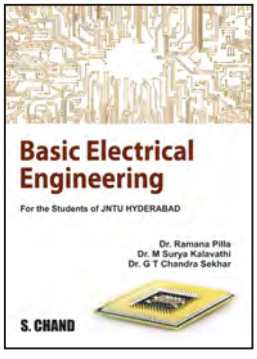
### Contents

1. Semiconductor Diode, 2. Rectifiers, Clippers and Clampers 3. Bipolar Junction Transistor, 4. Field Effect Transistor, 5. Special Purpose Devices

Ramana Pilla He is Associate Professor at GMR Institute of Technology, Rajam, Andhra Pradesh, where he has been teaching for the past 17 years. He received his

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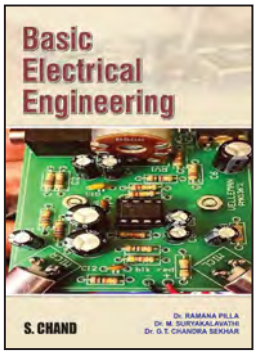
### Contents

1. DC Circuits, 2. AC Circuits, 3. Resonance, 4. The Three Phase Circuits, 5. Transformers, 6. DC Machines, 7. AC Machines, 8. Electrical Installation, Bibliography, Index

Dr. Ramanna Pilla: is Associate Professor at GMR Institute of Technology, Rajam, Andhra Pradesh, where he has been teaching for the past 17 years. He received his B.Tech. in EEE, M. Tech. in Electrical Power Engineering and Ph.D in EEE from JNTUH, Hyderabad. He has published/presented 40 papers in international and national journals/ conferences of repute. His areas of interest are control systems, power systems and electrical machine drives.

Dr. M. Surya Kalavathi: is Professor at JNTUH College of Engineering Hyderabad, Telangana, where she has been teaching for the past 26 years. She received her B. Tech. in EEE and M. E in Power System Operation and Control from Sri Venateswara University, Tirupati, Andhra Pradesh. She received Ph.D from JNTUH Hyderabad and Post-Doctoral from Carnegie Mellon University, Pittsburgh, USA. She has published more than 200 research papers and guided 17 Ph.D Scholars. Her areas of interest are High Voltage Engineering, Control Systems, Power Systems, Power Electronics and Electrical Machine Drives. She is a Professional member of IEEE, Life Member of ISTE and Fellow Member of the Institute of Engineers, India and member of several academic bodies. She was co-authored 2 books namely Basic Electrical and Electronics Engineering (For the students of JNTUH, Hyderabad) & Basics of Electrical Engineering (For the students of Dr. A. P. J. Abdul Kalam Technological University, Kerala) with S Chand and Company Limited.

Dr. G.T. Chandra Shekhar: Dr. G. T. Chandra Sekhar is Associate Professor & HoD at Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, where he has been teaching for the past 10 years. He received his B.Tech. in EEE form JNTU, Hyderabad, M.Tech in Power Electronics & Electric Drives from JNTUK, Kakinada. He received Ph.D in Electrical Engineering from Veer Surendra Sai University of Technology, Burla, Odisha, India.




## Basic Electrical Engineering

Ramana Pilla
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- Multiple choice questions, review questions and typical unsolved problems with answers have been provided at the end of each chapter.
- The book targets all Academics Students, Researchers and Industry Practitioners, Engineers, Research Scientists/ Academicians involved in Engineering Drafting.

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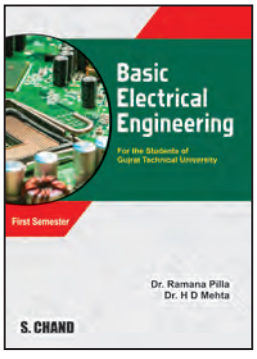
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Dr. Ramanna Pilla: is Associate Professor at GMR Institute of Technology, Rajam, Andhra Pradesh, where he has been teaching for the past 17 years. He received his B.Tech. in EEE, M. Tech. in Electrical Power Engineering and Ph.D in EEE from JNTUH, Hyderabad. He has published/presented 40 papers in international and national journals/ conferences of repute. His areas of interest are control systems, power systems and electrical machine drives.

Dr. S.K. Munagala: is Professor at JNTUH College of Engineering Hyderabad, Telangana, where she has been teaching for the past 26 years. She received her B. Tech. in EEE and M. E in Power System Operation and Control from Sri Venkateswara University, Tirupati, Andhra Pradesh. She received Ph.D from JNTUH Hyderabad and Post-Doctoral from Carnegie Mellon University, Pittsburgh, USA.

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## Books for Gujarat Technical University




### Basic Electrical Engineering

Dr. Ramana Pilla
Dr. H D Mehta

**ISBN: 9789352835287**
**Price: ₹ 495 | Pages: 464**
**Size: 6.75" X 9.5" (Paperback)**

#### About the Book

The book "Basic Electrical Engineering (GTU)" is based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/ BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of electric circuits, Network Theorems, Resonance, Three-phase Circuits, Transformers, Electrical Machines and Electrical Installation.

#### Key Features

- The contents of this book are presented in a simple way for easy understanding of students and can be used as self-study material.
- Innumerous number of solved examples on different topics has been given, which have been sourced from question papers of various universities.
- Multiple choice questions, review questions and typical unsolved problems with answers have been provided at the end of each chapter.
- The book targets all Academics Students, Researchers and Industry Practitioners, Engineers, Research Scientists/ Academicians.

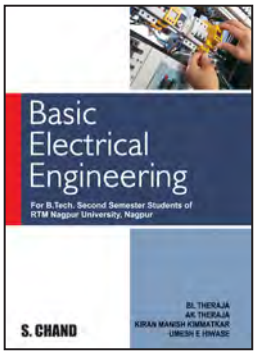
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H. D. Mehta He was born on August 26, 1973 in Rajkot, India. He received his B.E., M.E. and Ph.D degrees from North Gujarat University and R.K. University in 1995, 2007 and 2016 respectively. He is currently working as Associate Professor (Electrical) at Government Engineering College, Modasa, Gujarat. He has 22 years of teaching experience and his research areas include neural networks, genetic algorithms and multi-objective optimization of power systems and transformers.

## Books for RTM Nagpur University




### Basic Electrical Engineering: Semester-II (RTM) Nagpur University

B L Theraja, Kiran Manish Kimmatkar, Umesh E. Hiwase & A K Theraja

New

**ISBN: 9789355015006**
**Price: ₹ 399 | Pages: 520**
**Size: 6.75" X 9.5" (Paperback)**

#### About the Book

"Basic Electrical Engineering" is written exclusively for B. Tech. Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). Each of the important topics that help the student in learning the principles of Electrical Engineering more effectively have been included.

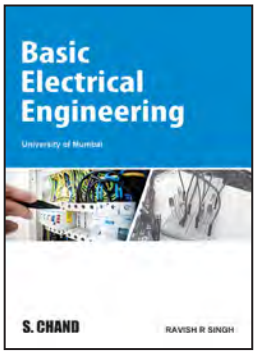
#### Key Features

- More than 1200 figures, tables and examples aid in ease of understanding of the concepts.
- More than 600 questions (as with-in chapter and chapter-end exercises) enhance and strengthen learning quotient.

#### Contents

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## Books for Mumbai University




### Basic Electrical Engineering

Ravish R. Singh

New

**ISBN: 9789355015365**
**Price: ₹ 499 | Pages: 676**
**Size: 6.75" X 9.5" (Paperback)**

#### About the Book

Basic Electrical Engineering is designed specifically for the First-Year Engineering students at the University of Mumbai. In that, the positive aspect is a thoughtful blend of theory and problems. This not only helps the students understand the concepts explained but also increases their practice quotient.

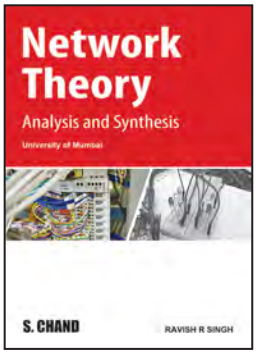
#### Key Features

- Follows Bloom's taxonomy (Specific learning outcomes can be derived from the taxonomy, though it is oft used to assess learning on a variety of cognitive levels.)
- Apt coverage with strict adherence to the MU syllabus of Basic Electrical Engineering
- Completion of each section is accompanied with multi-format exercises to test gleaning of individual subject matter
- A rich exam-oriented pedagogy includes:
  - Close to 1000 figures
  - More than 450 in-text solved examples
  - Close to 400 exercise questions

#### Contents

1. Basic Circuit Concepts – Prerequisite, 2. DC Circuits, 3. AC Circuits, 4. Three-Phase Circuits, 5. Transformers, 6. Electrical Machines, 7. DC Machines – Self-study Topic
• Index

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra




### Network Theory: Analysis and Synthesis

Ravish R. Singh

New

**ISBN: 9789355015358**
**Price: ₹ 525 | Pages: 608**
**Size: 6.75" X 9.5" (Paperback)**

#### About the Book

This book is core to the understanding of engineering of Electronics and Telecommunications and hence it becomes an important subject for students of Electronics & Telecommunication Engineering and Electronics Engineering in their Third Semester. A strong conceptual understanding of the subject is what the textbook lends to its reader and an apart from an emphasis on problem-solving approach and discussion on both analysis and synthesis of networks. It offers ample coverage of DC circuits, network theorems, transient analysis, two-port networks, and network synthesis among other major topics.

#### Key Features

- Apt coverage of both analysis and synthesis of networks with strict adherence to the MU syllabus of Network Theory
- Marked problem-solving approach
- A rich exam-oriented pedagogy includes:
  - Close to 1150 figures
  - Close to 400 in-text solved examples
  - More than 400 exercise questions

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1. Circuit Analysis
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8. Synthesis of R-L-C Circuits
9. Filters

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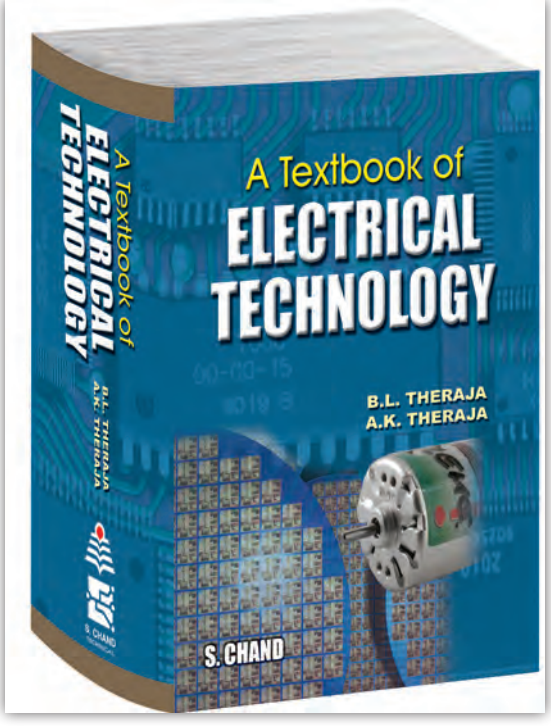
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B.L. Theraja & A.K. Theraja

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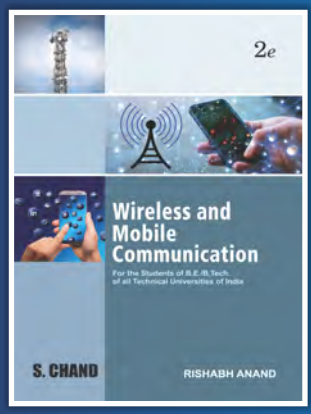
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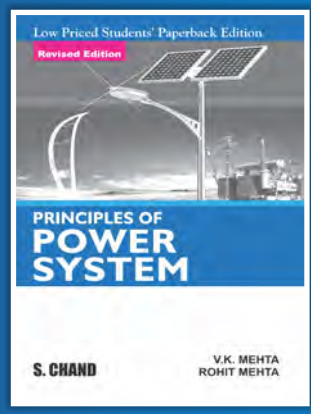
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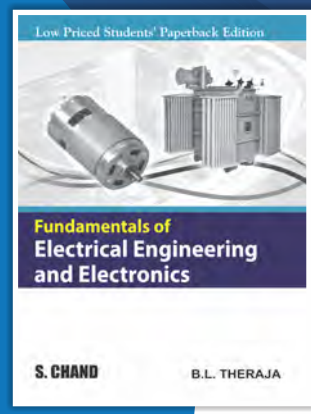
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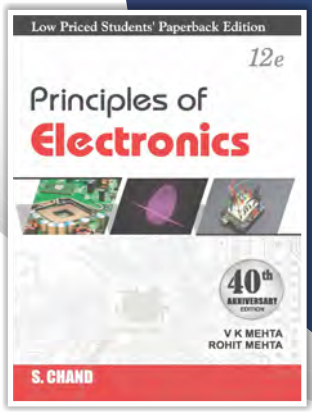
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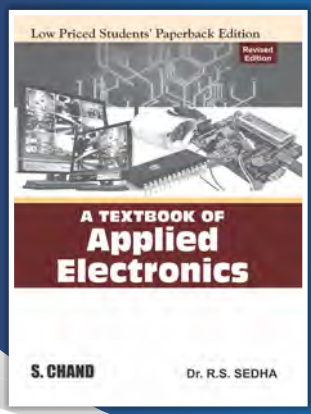


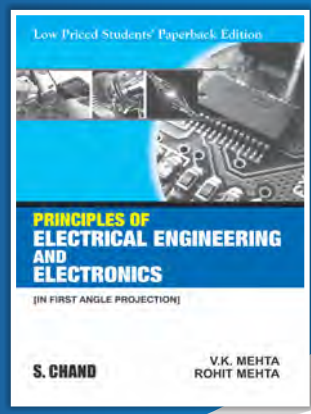



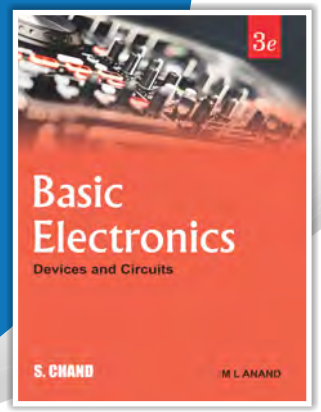





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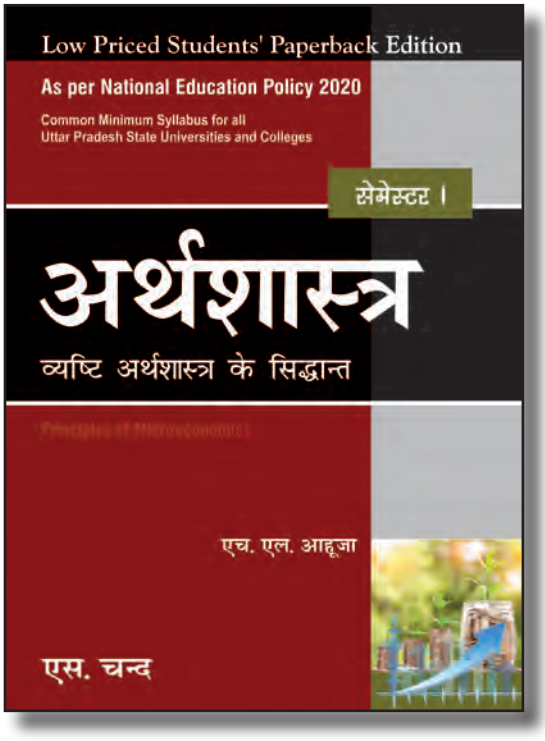
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New




# अर्थशास्त्र: व्यष्टि अर्थशास्त्र के सिद्धान्त सेमेस्टर I ( NEP-2020-Uttar Pradesh)

एच.एल. आहूजा

### पुस्तक के विषय में

यह पुस्तक, नई शिक्षा नीति 2020 द्वारा अनुशंसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों तथा महाविद्यालयों के लिए समान न्यूनतम पाठ्यक्रम (Common minimum Syllabus) के आधार पर विकसित की गई है। इस पुस्तक मे नई शिक्षा नीति के अंतर्गत निर्देशित पाठ्यक्रम का पूर्ण रूप से समावेश है।

### प्रमुख विशेषताएँ:

- माँग के सिद्धान्त में मार्शल के गणनावाचक तुष्टिगुण और अनधिमान वक्रों के क्रमवाचक तुष्टिगुण के सिद्धान्तों की विस्तृत व्याख्या एवं उनकी तुलना।
- माँग के नवीन सिद्धान्त एवं उद्घाटित अधिमान सिद्धान्त की आलोचनात्मक विवेचना।
- पूर्ण प्रतियोगिता के मॉडल की कैल्डर तथा स्त्राफा द्वारा आलोचना की सरल ढंग से व्याख्या।
- कीमत-निर्धारण के एकाधिकार, एकाधिकारिक प्रतियोगिता तथा अल्पाधिकार के अनेक मॉडलों की विस्तार से विवेचना।
- सामान्य संतुलन विश्लेषण एवं कल्याण अर्थशास्त्र में परेटो मानदण्ड तथा पेरेटो अनुकूलतम का विस्तृत अध्ययन।
- सामाजिक कल्याण फलन का आलोचनात्मक विश्लेषण।

**ISBN: 9789355014900 | Price: ₹ 395 | Pages: 584 | Size: 6.75" X 9.5" (Paperback)**

### विषय-सूची

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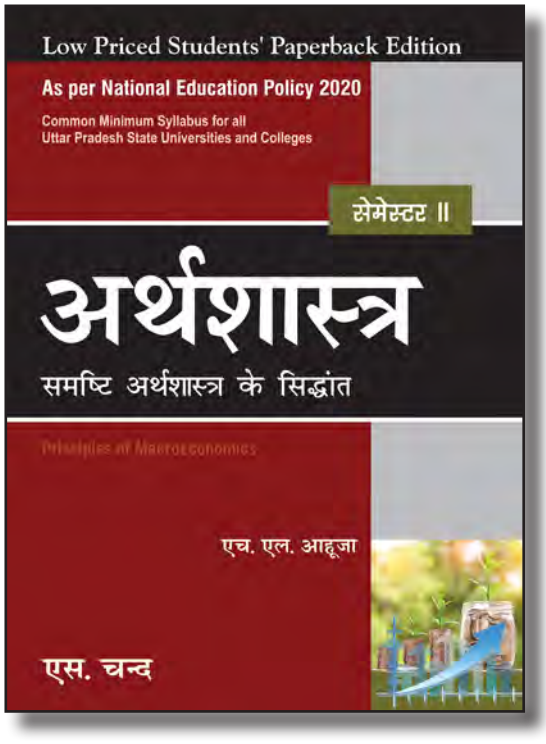
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(NEP 2020, CMS Uttar Pradesh)




# अर्थशास्त्र: समष्टि अर्थशास्त्र के सिद्धान्त सेमेस्टर II ( NEP-2020-Uttar Pradesh)

New

एच.एल. आहूजा

## पुस्तक के विषय में

यह पुस्तक, नई शिक्षा नीति 2020 द्वारा अनुशंसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों और महाविद्यालयों के लिए समान न्यूनतम पाठ्यक्रम (Common minimum Syllabus) के आधार पर, अत्यंत ही सरल और सुबोध भाषा में लिखी गई है। यह पुस्तक सिविल सेवा के अभ्यार्थियों के लिए भी उपयोगी है।

### प्रमुख विशेषताएँ:

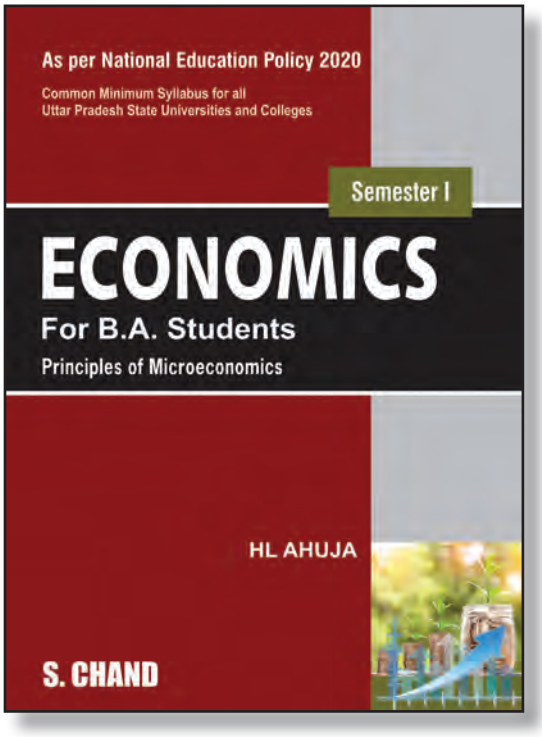
- राष्ट्रीय आय संबंधी जटिल अवधारणाओं का अत्यंत सरल और रोचक भाषा में विवेचन।
- क्लॉसिकल और कीन्स के समष्टिपरक सिद्धांतों का स्तरीय आलोचनात्मक विवेचन।
- उपभोग (Consumption) और निवेश (Investment) संबंधी समष्टिपरक सिद्धांतों का विस्तारित विश्लेषण।
- मुद्रास्फीति की अवधारणा और संबंधी सिद्धांतों का गहन विश्लेषण।
- मुद्रास्फीति और बेरोज़गारी के अन्तर्संबंध पर आधारित फिलिप्स वक्र का तार्किक विवेचन।
- IS–LM मॉडल का अवधारणात्मक विवेचन।

**ISBN: 9789355013217 | Price: ₹ 395 | Pages: 368 | Size: 6.75" X 9.5" (Paperback)**

### विषय-सूची

1. समष्टि-अर्थशास्त्र: विषय क्षेत्र एवं इसकी विभिन्न विचारधारांए
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**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.




# Economics for B.A. Students Semester I ( NEP-2020-Uttar Pradesh)

H. L. Ahuja

## About the Book

This textbook has been conceptualized to meet the need of B.A. First Semester students of Economics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook comprehensively covers first semester paper Principles of Microeconomics. This textbook acquaints the students with the important concepts of microeconomics such as demand, supply & market equilibrium, theory of consumer's behaviour, theory of production & cost, theory of firm & pricing in perfect competition, price & output under monopoly & imperfect competition, theory of distribution and lastly welfare economics & economic efficiency

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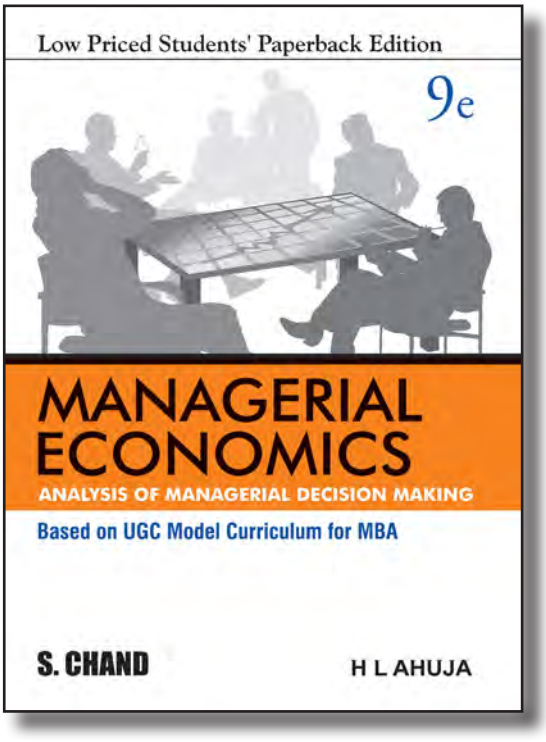
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**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.

(NEP 2020, CMS Uttar Pradesh)




# Managerial Economics, 9e

## H L Ahuja

### About the Book

Widely acknowledged, this popular and detailed text is a comprehensive treatise on Managerial Economics - both micro and macro-economic aspects. This text ensures a thorough understanding of core concepts before advancing to provide an expanded treatment of topics. It explains the economic environment and the impact on managerial decisions regarding price & output determination in different market structures followed by an account of the behaviour of individuals under conditions of uncertainty.

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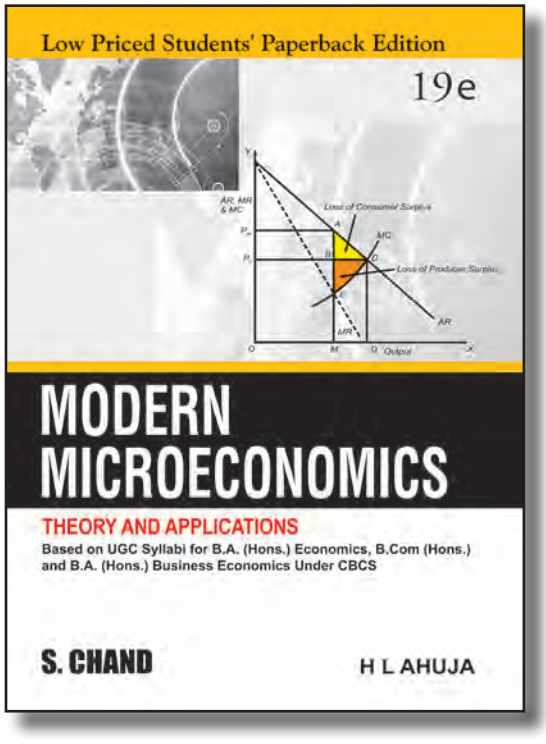
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- Up-to-date explanation of the changes in GDS and GDCF and valued added method to measure national income in India by CSO
- Contemporary discussion on the role of Government borrowing for financing economic development and the concept of fiscal deficit

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**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.




# Modern Microeconomics, 19e

## H L Ahuja

### About the Book

This book is designed as the updated syllabus of B.A.(Hons.) Economics and B.Com. (Hons.) of the universities. Also added various topics of UGC new syllabi of B.A. (Hons.) Economics, B.Com. (Hons.) and B.A. (Hons.) Business Economics under the ';Choice Based Credit System' (CBCS) which is to be adopted by all India Universities. It explains the use of graphs in economics, various types of curves and measurement of their slopes, the concept of function, both linear and power functions, the concept of derivatives and the use of differential calculus as optimising technique for solving the problems of maximisation and minimisation in economics. This book will help the students to understand various economic theories better as economics in recent years has become increasingly mathematical.

This book will also be of immense use for professional courses such as Business Economics, BBA, CA, ICWA and for the candidates preparing for all India and State level competitive examinations such as IAS, IES and allied services.

### Key Features

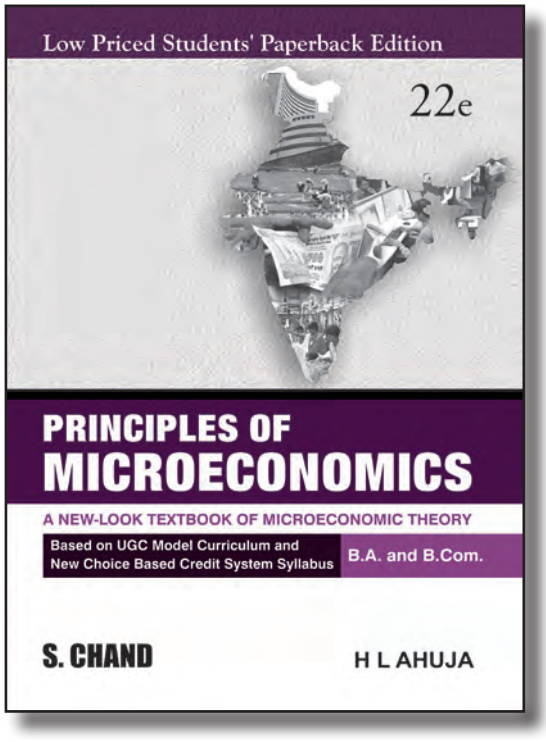
- Important additions and elaborations in the new edition - phenomenon of 'poverty amidst plenty', compensating variation in income and equivalent variation in income, Hicksian analysis of wage-determination under collective bargaining in terms of employer's concession curve and labour union's resistance, tragedy of commons
- Inclusion of a new chapter on Consumer Surplus, Producer Surplus and Competitive Market and Taxation (Chapter 7B) which explains assumed economic efficiency of perfectly competitive market economy
- Exclusive chapter on 'The Use of Mathematical Concepts, Graphs and Other Techniques in Economics' which enables better understanding among students as economics has increasingly become mathematical in recent years

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## Principles of Microeconomics, 22e

H L Ahuja

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### About the Book

The book makes a comprehensive and analytical study of theories of demand, production/cost and determination of price and output of products in different market structures. It also discusses theory of factor pricing and income distribution as wages, rent, interest and profits. Above all, it critically analyses the conditions of economic efficiency and maximum social welfare and causes of market failures. It takes a further lead with this revision by aligning its contents with the prescribed UGC model curriculum and new Choice Based Credit System (CBCS) syllabus.

### Key Features

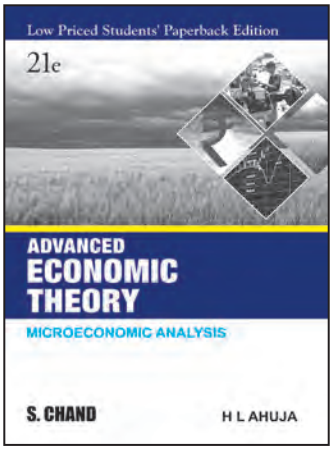
- Syllabi Relevant: Updated and revised topics as per UGC model curriculum and new Choice Based Credit System (CBCS) syllabus
- New Chapters: Production Process and Profit-Maximising Behaviour of firms; Economic Efficiency of Perfect Competition; Remedies of Monopoly; Market Failures and its Sources; Externalities and Market Failure; Public Goods and Market Failure; Problem of Imperfect Information and Market for Lemons and Social Choice and Role of Government
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**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.




# Advanced Economic Theory, 21e

H L Ahuja

## About the Book

This authoritative and comprehensive text is an advanced treatise on microeconomics. Featuring simplified mathematical treatment, the book covers a wide spectrum of theories and concepts aimed at effective understanding of advanced economic theory. This revised edition explores further the concept of economic efficiency and the concept of utility and its critique by Prof. Amartya Sen. It further includes an incisive analysis of Hicksian and Slutsky substitution effect. The revision also includes important distinctions and critical analysis of several functions expositing the latest developments in the field.

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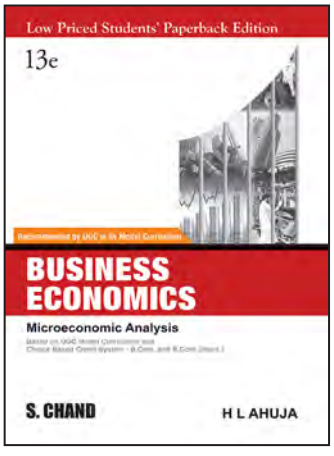
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## Business Economics, 13e

H L Ahuja

### About the Book

The book provides conceptual understanding of essential concepts in business life. It details the foundations of business economics with special emphasis on demand analysis and consumer behaviour. It also discusses analysis of production and cost of the firm, market structures and pricing of products, factor pricing and income distribution and concludes with the discussion of capital budgeting. Based on the author's extensive teaching experience, the book champions a collaborative approach to delivering an appropriate textbook that is curriculum relevant.

### Key Features

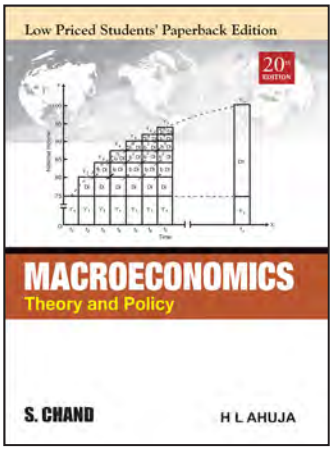
- Syllabi Relevant: Caters to UGC's new CBCS syllabus and also to its earlier Model Curriculum
- New Topics: Study of destination between private and social costs, rule of thumb, for pricing followed under monopoly and imperfect competition, mark up pricing, marginal cost pricing, Ramsey's multi- product pricing, causes of market failure and role of Government intervention to correct market failure. The book also includes a critical analysis of Economic Efficiency under perfect competition.
- Diagrams and Graphs: They clearly illustrate theoretical concepts and enhance understanding of their practical application.

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**H L Ahuja,** Formerly Associate Professor, Department of Economics, Zakir Husain Delhi College, University of Delhi.




## Macroeconomics, 20e

H L Ahuja

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### About the Book

This textbook acquaints the students with the latest trends and tendencies in macroeconomics analysis and policy. It keeps in view the macroeconomic environment of the developing economies, especially the emerging Indian economy, while analysing and discussing various theories and policies of macroeconomics. Not confining itself to mere Keynesian macroeconomics, it critically examines the post-Keynesian developments in macroeconomics as well.

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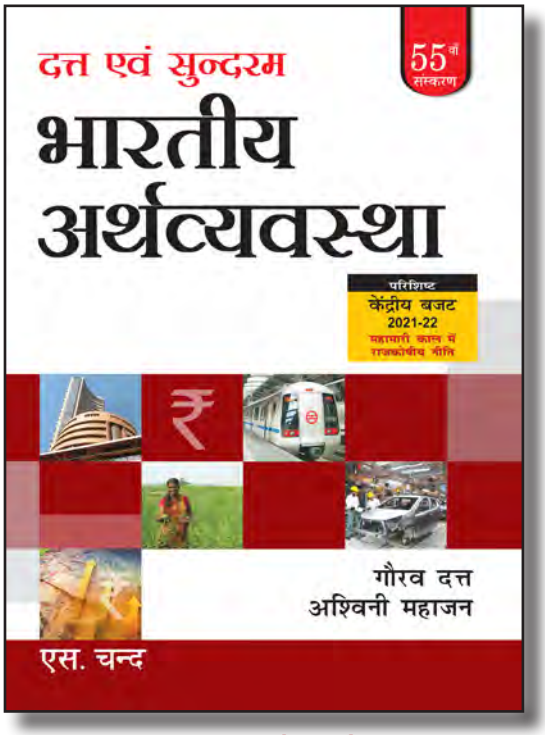
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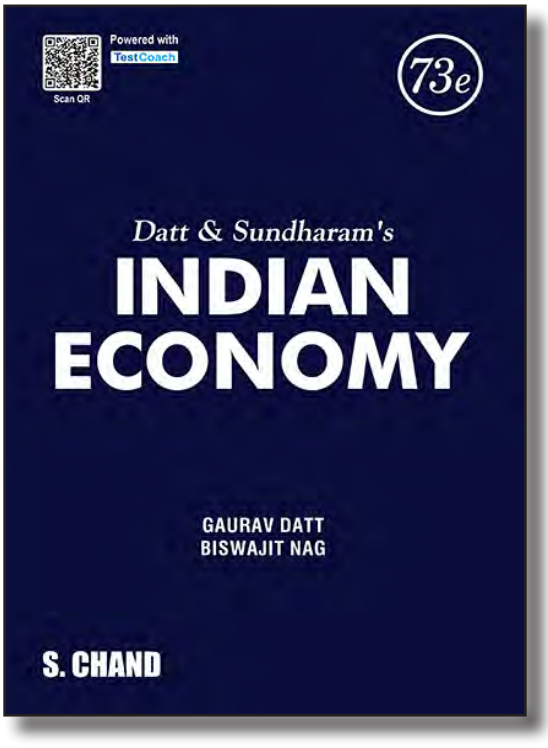
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*Datt & Sundharam's*

# INDIAN ECONOMY, 73e

Gaurav Datt | Biswajit Nag

## About the Book

This revised edition of Datt and Sundharam's Indian Economy presents an up-to-date review of trends and issues framing the development of the modern Indian economy. This comprehensive update involved a complete rewrite of the original book as part of the endeavour to promote a critical understanding of the ever-changing canvass of opportunities and challenges facing the Indian economy.

This edition represents a fresh attempt to study the evolving journey of the increasingly complex Indian economy from a contemporary vantage point while retaining a longer-term historical perspective. Divided into five parts, the book begins with an overview of the Evolving Structure of the Indian Economy, which introduces India as a developing economy, and discusses its economic growth, demographic trends, human development, infrastructure and the environment. The second part delves into India's Planning System and Evolution of Economics Sectors. As areas of national concern, the topics of Poverty, Inequality, Employment and Social Security are taken up in the third part. The fourth part on the Fiscal-monetary system and India's Financial Sector discusses key aspects of India's fiscal, monetary and financial sector policy, including a detailed review of the Union Budget 2023-24. The final part focuses on Trade, Technology and Globalisation discussing issues related to trade policy, foreign direct investment, India's interface with the World Trade Organisation, participation in global value chains, and the state of technology in the context of India's emergence on the global economic stage.

With the marshalling of large amounts of data in an array of tables, graphs, charts, and boxes explaining key concepts and special topics, the book is informative, engaging, visually appealing and facilitates better understanding of the evolving complexities of the Indian economy along with the potential and limits of economic policy in the country. The revision has been developed according to the curriculum of the National Education Policy 2020 and caters to the academic requirements of undergraduate Economics students. The findings from contemporary literature/research covered in the book will help the Post graduate students and researchers from economics, commerce and finance streams. It will also be a useful resource for the aspirants appearing for various competitive examinations.

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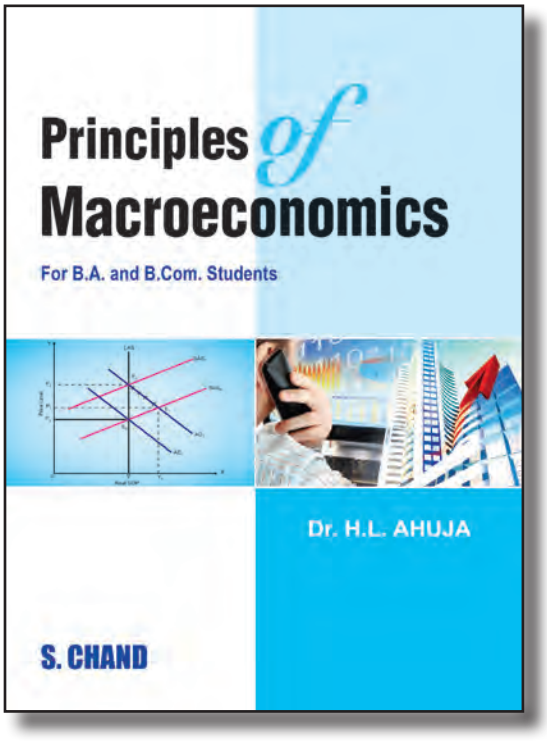
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**Gaurav Datt,** Associate Professor, Centre for Development Economics and Sustainability, Department of Economics, Monash University, Melbourne (Australia).

**Biswajit Nag,** Professor of Economics, Indian Institute of Foreign Trade (IIFT), New Delhi (India)




# Principles of Macroeconomics

## H L Ahuja

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Designed for the undergraduate students of economics, commerce and management, this textbook thoroughly explains the principles of macroeconomics. It provides insights into the important macroeconomic issues, such as determination of output, employment, interest rates and inflation. This textbook discusses Classical and Keynesian theories of macroeconomics as well as aptly incorporates Post-Keynesian developments in various aspects of macroeconomics. Further it discusses, at appropriate places, the relevance and applicability of various macroeconomic theories for the developing countries. This textbook also explains and critically evaluates the post-Keynesian theories of consumption function namely, Kuznet's consumption function, Modigliani's life cycle hypothesis and much more.

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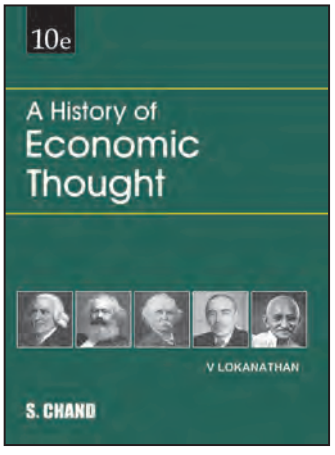
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**H L Ahuja,** a distinguished academician, is a distinction holder in MA Economics. He was the recipient of McConnel Levin prize from Punjab University for his paper "Investment Criteria in Development Planning". He continued his academic pursuit and received his doctorate from Delhi University in 1982 for his thesis 'Development Strategy for a Labour Surplus Economy'.

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## A History of Economic Thought, 10e

V Lokanathan

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This book provides a comprehensive coverage of the origin and development of economic thought from ancient times to the present day. It documents the contributions of major thinkers from the time of *Hebrews to Maurice Dobb*, and the perspectives that influenced the economic thought. It further provides an account of the recent trends in Indian economic thought and will be of interest & relevance to all students & scholars of the subject.

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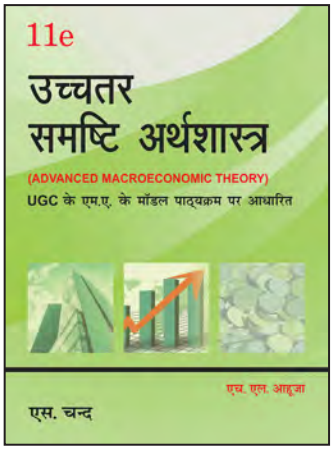
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**V Lokanathan,** Emeritus Professor of Economics, Sir Theagaraya College, Chennai.

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## उच्चतर समष्टि अर्थशास्त्र, 11वाँ संस्करण

एच एल आहूजा

### पुस्तक के विषय में

भारतीय विश्वविद्यालयों के एम.ए. (अर्थशास्त्र) एवं एम. कॉम. के विद्यार्थियों के लिए अत्यंत सरल एवं सुबोध भाषा में लिखी गयी यह पुस्तक सिविल सेवा के अभ्यर्थियों के लिए भी उपयोगी है।

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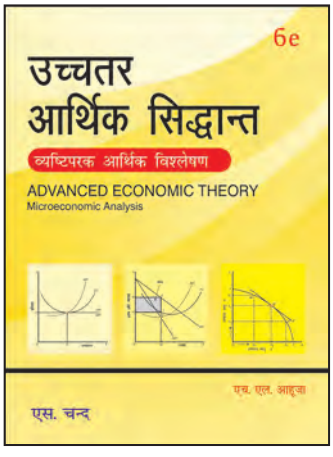
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## उच्चतर आर्थिक सिद्धान्त, 6वाँ संस्करण

एच एल आहूजा

### पुस्तक के विषय में

भारतीय विश्वविद्यालयों के एम.ए. (अर्थशास्त्र) तथा एम.कॉम. के विद्यार्थियों के लिए अत्यंत सरल एवं सुबोध भाषा में लिखी गयी इस पुस्तक में आर्थिक सिद्धान्तों की नवीनतम तथा आधुनिक प्रवृत्तियों एवं दृष्टिकोणों की व्यष्टिपरक विश्लेषणात्मक व्याख्या की गयी है। इसमें न केवल माँग, उत्पादन, लागत तथा वितरण के सिद्धान्तों की बल्कि विभिन्न मार्केट ढाँचों में कीमत-निर्धारण एवं सामान्य संतुलन विश्लेषण तथा कल्याणकारी अर्थशास्त्र की आलोचनात्मक समीक्षा की गयी है। यह पुस्तक आई.ए.एस. एवं पी.सी.एस. के अभ्यर्थियों के लिए भी उपयोगी सिद्ध होगी।

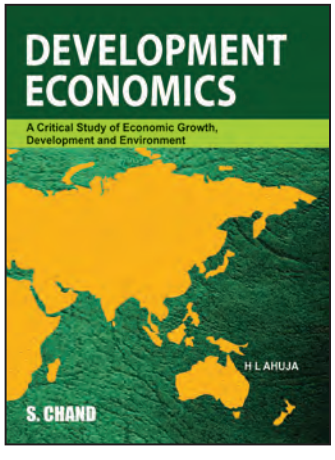
### प्रमुख विशेषताएं

- अर्थव्यवस्था की केन्द्रीय समस्याओं तथा उत्पादन संभावना वक्र के उपयोग की विस्तार से व्याख्या।
- मुक्त मार्केट अर्थव्यस्था तथा उसके संचालन में कीमत प्रणाली की भूमिका का स्पष्टीकरण।
- रेखीय प्रायोजन के अन्तर्गत द्वैत समस्या तथा आहार समस्या का संशोधित विवरण।
- कीमत-निर्धारण के एकाधिकार, एकाधिकारिक प्रतियोगिता तथा अल्पाधिकार के अनेक मॉडलों की विस्तार से विवेचना।
- सामान्य संतुलन विश्लेषण एवं कल्याण अर्थशास्त्र में परेटो मानदण्ड तथा पेरेटो अनुकूलतम का विस्तृत अध्ययन।

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H L Ahuja

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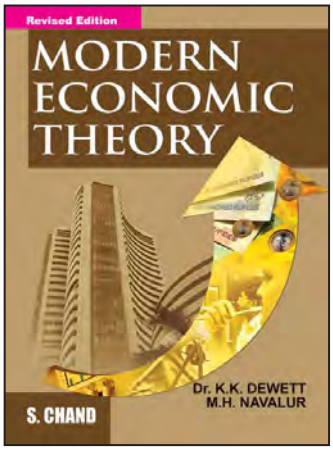
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K K Dewett & M H Navalur

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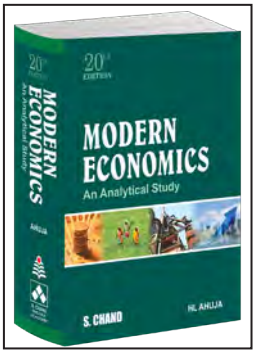
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**K K Dewett,** Formerly Head of Department - Economics, Chandigarh.
**M H Navalur,** Professor, Department of Economics, Maharashtra College of Science and Commerce, Mumbai.



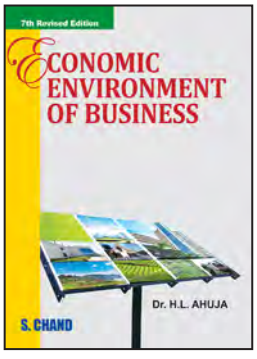

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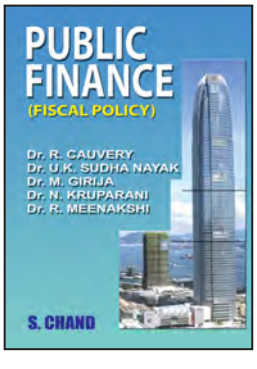

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H L Ahuja

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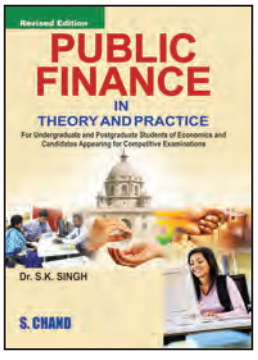

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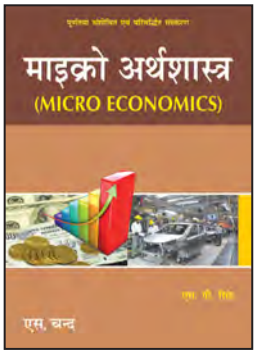

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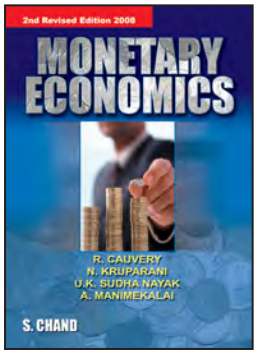
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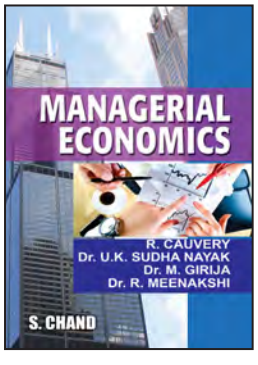

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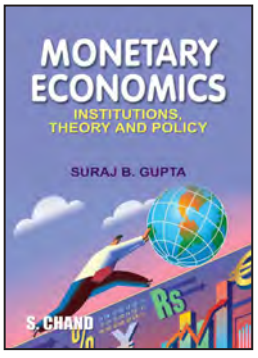

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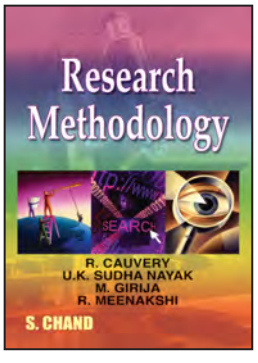

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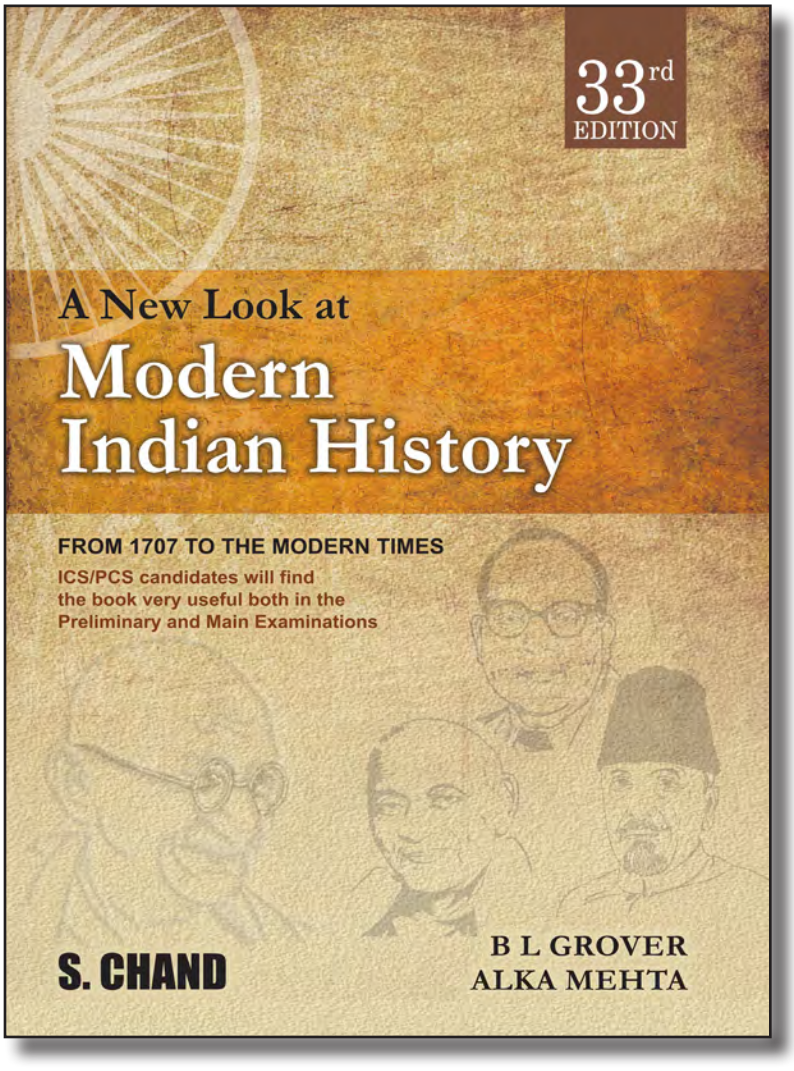

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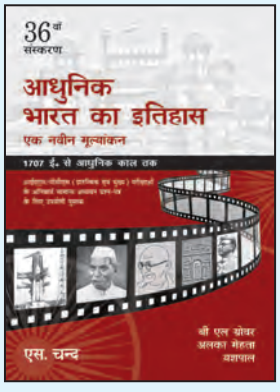
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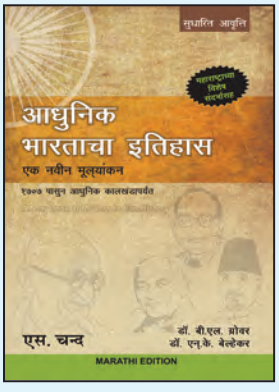
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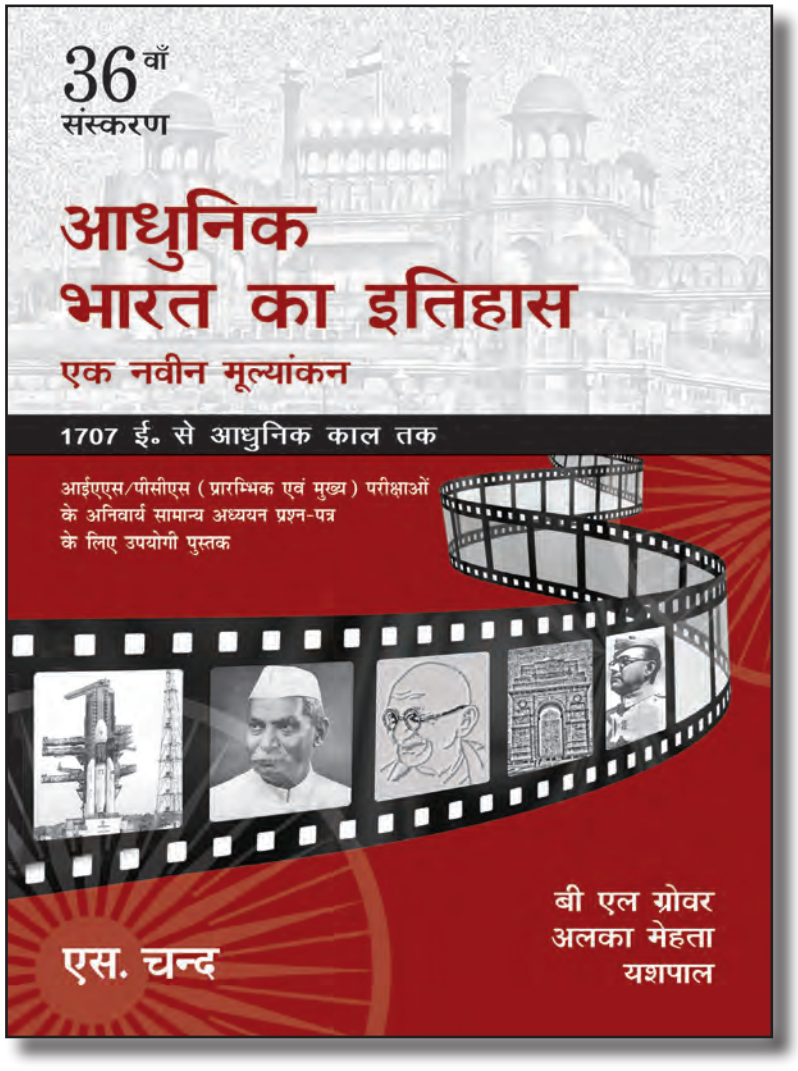



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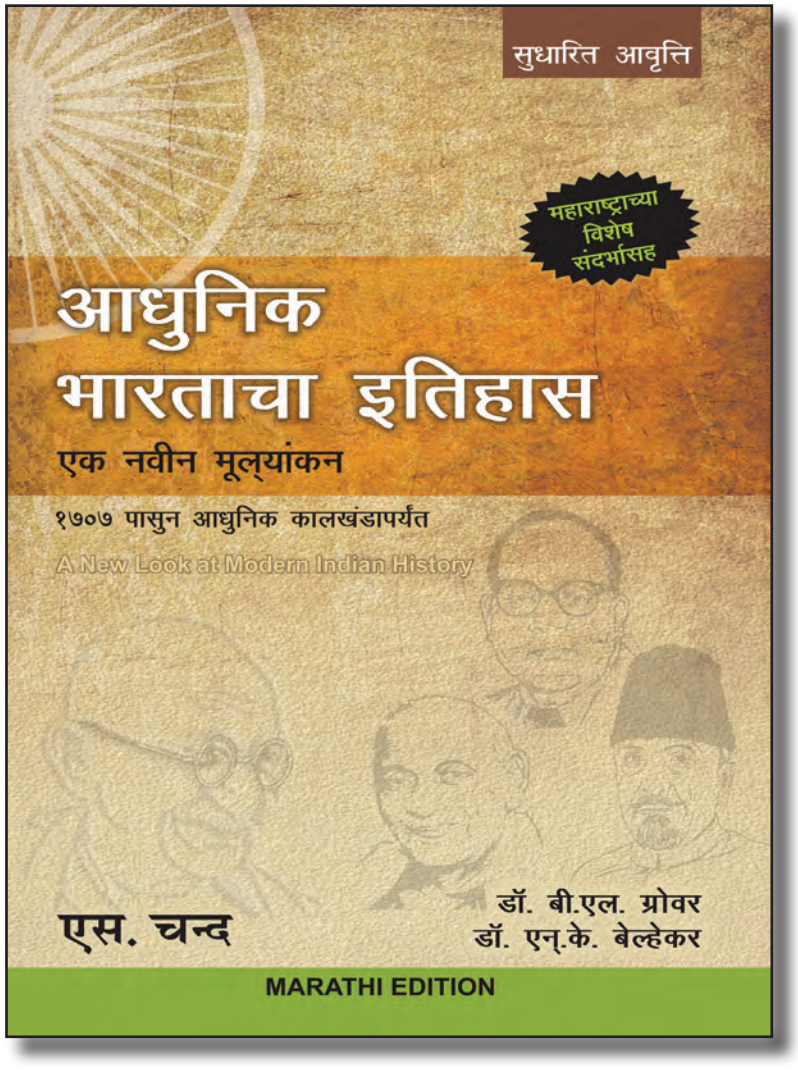
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# आधुनिक भारताचा इतिहास एक नवीन मूल्यांकन

बी. एल. ग्रोवर एंव
एन्. के. बेल्हेकर

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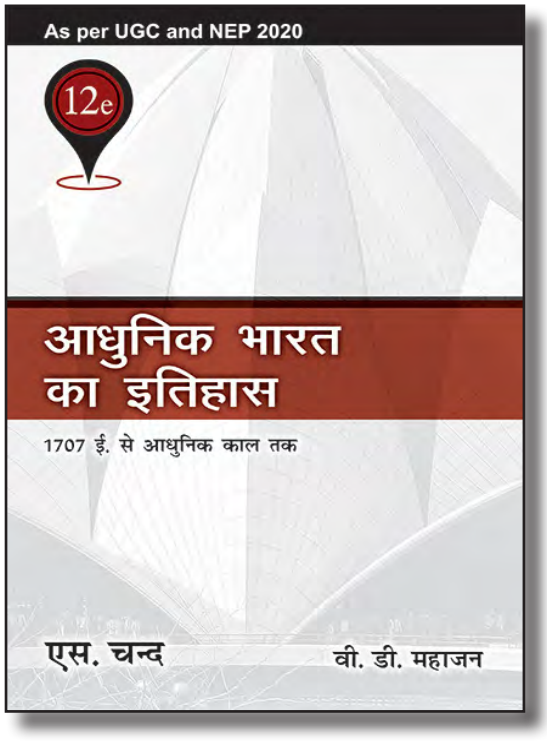
It is one of the bestselling books on Modern Indian History covering the time line from 1707 to the modern times. The book covers the entire gamut in a very unique style- it mentions not only factual data about various topics but also provides information about different interpretations put forth by Western and Indian historians, with an integrated analysis. This makes the book equally useful for undergraduate students of History and aspirants appearing for various competitive examinations.

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**B L Grover,** Head of Department - History, Hans Raj College, University of Delhi.

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'संदर्भ ग्रंथ सूची




# आधुनिक भारत का इतिहास 12e

वी. डी. महाजन

## पुस्तक के विषय में

इस संस्करण में 1707 ई. से लेकर आधुनिक काल तक के भारत के इतिहास का व्याख्यात्मक और व्यापक विवरण प्रदान किया गया है। इस पुस्तक में 42 अध्याय हैं जो मुगल साम्राज्य के पतन और विघटन पर चर्चा के साथ शुरू होते है और यूरोपीय लोगों के भारत आगमन और ब्रिटिश साम्राज्यवाद के विस्तार पर प्रकाश डालते है। इस पुस्तक में न केवल तथात्मक आँकड़ों का समावेश है अपितु इसमें विभिन्न विषयों पर पाश्चात्य एवं भारतीय इतिहासकारों की व्याख्या दी गई है। यह पुस्तक इतिहास के स्नातक स्तर के विद्यार्थियों के लिए उपयोगी है तथा विभिन्न परीक्षाओं में सम्मिलित हो रहे अभ्यर्थी भी इससे लाभान्वित होंगे।

## प्रमुख विशेषताएँ:

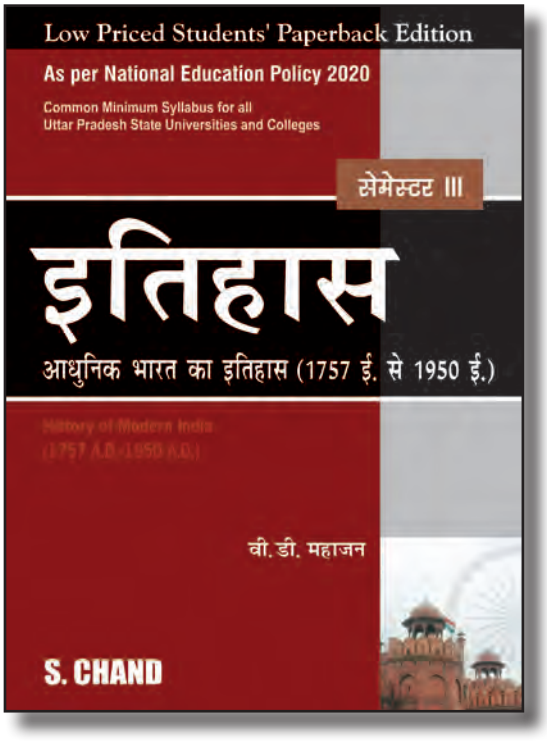
- इस पुस्तक में आधुनिक भारत से संबंधित सभी महत्वपूर्ण विषयों को सम्मिलित किया गया है।
- विषय के गहन अध्ययन के लिए प्रत्येक अध्याय के अंत में 'सजेस्टेड रीडिंग्स' दी गई है।
- यह पुस्तक आधुनिक भारत की तथ्यात्मक एवं विश्लेषणात्मक समझ बनाने में सहायता करती है।

**ISBN: 9789355018052 | Price: ₹ 650 | Pages: 640 | Size: 6.5" X 9.25" (Paperback)**

## विषय-सूची

1. मुगल साम्राज्य का पतन तथा विघटन; 2. स्वतंत्र राज्यों का उदय; 3. अठारहवीं शताब्दी में समाज और संस्कृति; 4. भारत में यूरोपीय जातियों का आगमन; 5. अंग्रेजी ईस्ट इण्डिया कम्पनी की स्थापना तथा विकास; 6. दक्षिण में प्रभुत्व के लिए अंग्रेजों तथा फ्रांसीसियों का संघर्ष; 7. बंगाल में अंग्रेज (1757–1772); 8. वारेन हेस्टिंग्ज़ (1772–1785); 9. लॉर्ड कार्नवालिस तथा सर जॉन शोर; 10. लॉर्ड वैल्ज़ली (1798–1805); 11. लॉर्ड हेस्टिंग्ज़ तथा एमहर्स्ट; 12. पेशवाओं का उत्थान और पतन 13. बैन्टिक से आकलैंड तक; 14. एलनबरा तथा हार्डिंग; 15. महाराजा रणजीत सिंह तथा उसके उत्तराधिकारी; 16. लॉर्ड डलहौज़ी; 17. गदर; 18. कैनिंग से लिटन तक; 19. रिपन से एलगिन तक (1880–1898); 20. लॉर्ड कर्ज़न (1899–1905); 21. भारत लॉर्ड मिण्टो से आगे; 22. संवैधानिक विकास (1773–1950); 23. केन्द्रीय तथा प्रान्तीय विधान सभाओं का विकास; 24. राष्ट्रवादी आन्दोलन का विकास; 25. भारत में मुस्लिम साम्प्रदायिकता का विकास; 26. आधुनिक भारत के नेता; 27. वित्त का विकेन्द्रीकरण; 28. भारत में स्थानीय स्वराज्य का विकास; 29. भारत में समाचार-पत्रों का इतिहास; 30. शिक्षा का इतिहास; 31. धार्मिक तथा सामाजिक सुधार आन्दोलन; 32. आँग्ल-अफ़गान सम्बन्ध; 33. भारतीय रियासतें; 34. भारत को ब्रिटिश शासन की देन; 35. अंग्रेजी शासन का भारत पर आर्थिक प्रभाव; 36. भारत में वाम-पंथी आन्दोलन; 37. आधुनिक भारत का पुनर्जागरण; 38. कृषक संघर्ष; 39. उदारवादी राजनीति का युग (1885–1905); 40. महात्मा गांधी और भारतीय स्वतंत्रता आन्दोलन; 41. ब्रिटिश शासन का राजनीतिक, सांस्कृतिक तथा सामाजिक प्रभाव; 42. भूमि राजस्व व्यवस्था में परिवर्तन

**V D Mahajan,** Formerly Professor, History & Political Science, Punjab University, Lahore and Faculty of Law, University of Delhi.




# इतिहास आधुनिक भारत का इतिहास ( 1757 ई. से 1950 ई. ) सेमेस्टर III ( NEP-2020-Uttar Pradesh)

New

वी. डी. महाजन

## पुस्तक के विषय में

यह पुस्तक, नई शिक्षा नीति 2020 द्वारा अनुशंसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों और महाविद्यालयों के लिए समान न्यूनतम पाठ्यक्रम (Common minimum Syllabus) के आधार पर, अत्यंत ही सरल और सुरूचिपूर्ण भाषा में इतिहास के छात्र के लिए लिखी गई है। यह पुस्तक बी.ए. इतिहास के विद्यार्थियों के साथ प्रशासनिक सेवा (सिविल सेवा) के अभ्यार्थियों के लिए भी उपयोगी है।

## प्रमुख विशेषताएँ:

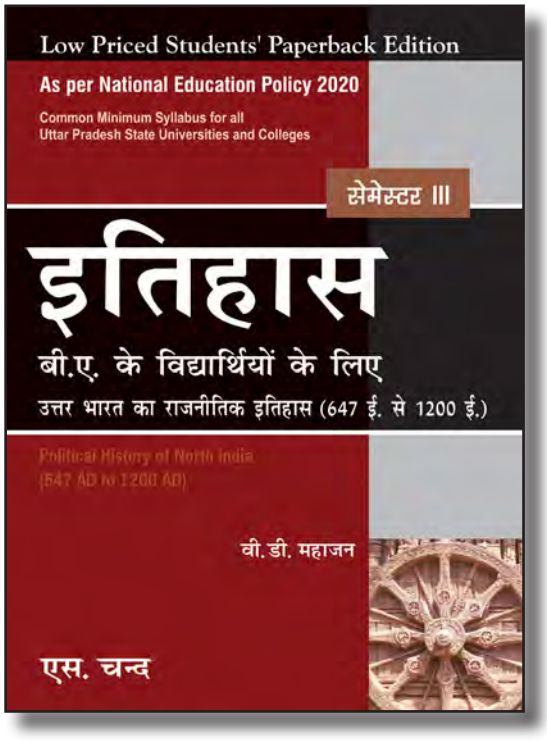
- इस पुस्तक में आधुनिक भारत से सम्बन्धित सभी महत्वपूर्ण विषयों को सम्मिलित किया गया है।
- इस पुस्तक में स्वातत्रयोत्तर भारत में रियासतो के विलय और सरदार वल्लभभाई पटेल के योगदान का विवेचन किया गया है।
- यह पुस्तक आधुनिक भारत की तथ्यात्मक एवं विश्लेषणात्मक समझ बनाने में सहायता करती है।

**ISBN: 9789355011190 | Price: ₹ 235 | Pages: 232 | Size: 6.5" X 9.25" (Paperback)**

## विषय-सूची

1. भारत में यूरोपीय जातियों का आगमन
2. अंग्रेजी ईस्ट इण्डिया कंपनी की स्थापना तथा विकास
3. दक्षिण में प्रभुत्व के लिए अंग्रेजों तथा फ्रांसीसियों का संघर्ष
4. बंगाल में अंग्रेज
5. ईस्ट इंडिया कंपनी का क्षेत्रेय विस्तार-1
6. ईस्ट इंडिया कंपनी का क्षेत्रेय विस्तार-2
7. ईस्ट इंडिया कंपनी का क्षेत्रेय विस्तार-3
8. ईस्ट इंडिया कंपनी का क्षेत्रेय विस्तार-4
9. रणजीत सिंह के अधीन पंजाब का उदयय विजय एवं प्रशासनय 18वीं सदी में हैदराबाद एवं मैसूर का उदय
10. औपनिवेशिक काल में भू-राजस्व व्यवस्था
11. आधुनिक भारत का पुनर्जागरण
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13. औपनिवेशिक भारत में शिक्षा का विकास
14. संवैधानिक विकास
15. स्वातंत्रयोत्तर भारत में रियासतों का लिय और सरदार वल्लभ भाई पटेल की भूमिका

**V D Mahajan,** Formerly Professor, History & Political Science, Punjab University, Lahore and Faculty of Law, University of Delhi.




# इतिहास: उत्तर भारत का राजनीतिक इतिहास (647 ई. से 1200 ई.) सेमेस्टर III

## (NEP-2020-Uttar Pradesh)

New

वी. डी. महाजन

### पुस्तक के विषय में

यह पुस्तक इतिहास के छात्रों के लिए नई शिक्षा नीति 2020 द्वारा अनुशंसित उत्तर प्रदेश के सभी राज्य विश्वविद्यालयों और महाविद्यालयों के लिए समान न्यूनतम पाठ्यक्रम (Common Minimum Syllabus) के आधार पर अत्यंत ही सरल और सुरुचिपूर्ण भाषा में लिखी गई है। यह पुस्तक विशेष रूप से बी.ए. इतिहास के द्वितीय वर्ष (सेमेस्टर III) के उत्तर भारत का राजनीतिक इतिहास (647 ई. से 1200 ई.) के पाठ्यक्रम के अनुसार लिखी गई है। यह पाठ्यक्रम "प्राचीन भारतीय इतिहास, पुरातत्व एवं संस्कृति (Ancient Indian History, Archaeology & Culture)" पेपर के अंतर्गत पढ़ाया जा रहा है। यह पुस्तक प्रशासनिक सेवा (सिविल सेवा) और अन्य प्रतियोगी परीक्षाओं के अभ्यर्थियों के लिए भी उपयोगी है।

### प्रमुख विशेषताएँ:

- पुस्तक में आरंभिक मध्यकालीन भारत के प्रमुख राजनीतिक, आर्थिक, सामाजिक और सांस्कृतिक पहलूओं का विस्तृत विवरण किया गया है।
- यह पुस्तक छात्रों को उत्तर भारत के समृद्ध राजनीतिक इतिहास से परिचित कराती है।
- यह पुस्तक परीक्षा एवं विद्यार्थी-केंद्रित दृष्टिकोण से विकसित की गई है।

**ISBN: 9789355015037 | Price: ₹ 250 | Pages: 224 | Size: 6.5" X 9.25" (Paperback)**

### विषय-सूची

१. **आरंभिक मध्यकालीन इतिहास के स्रोत,** साहित्यिक स्रोत, राजनीतिक आख्यान और राजनीतिक संरचना, पुरातात्विक स्रोत, पुरातात्विक स्रोतों की ऐतिहासिक विवेचना

२. **केंद्रीय राजनीतिक संक्रमण और क्षेत्रीय राजवंशों का उदय,** हर्ष की मृत्यु के उपरांत उत्तर भारत की राजनैतिक अवस्था, मौखरि राजवंश, राजकीय भूमि अनुदान, कन्नौज के यशोवर्मन (यशोवर्मा), मगध के परवर्ती गुप्त

३. **राजपूतों की उत्पत्ति और उनका प्रसार,** राजपूतों का उद्भव, राजपूतों की उत्पत्ति संबंधित इतिहास लेखन, गाथाओं और अभिलेखों में तोमर तथा दिल्ली

४. **आरंभिक संक्रमणकालीन राजनीति एवं विभिन्न क्षेत्रीय वंश,** गुर्जर प्रतिहार वंश, पाल वंश, हिन्दू शाही वंश, सिंध के वंश, कश्मीर के वंश, कार्कोट वंश, उत्पल वंश, लोहार वंश, द्वितीय लोहार वंश

५. **कन्नौज: राजनीतिक प्रतिस्पर्धा का प्रमुख केंद्र,** त्रिपक्षीय संघर्ष

६. **मुसलमानों के आक्रमण के समय भारत की राजनीतिक अवस्था,** भारत की राजनीतिक अवस्था, सामाजिक, आर्थिक और धार्मिक दशा

७. **परिधीय राजनीतिक शक्तियाँ, सोलंकी वंश, परमार वंश,** स्वतंत्र परमार साम्राज्य की स्थापना: हर्ष अथवा सीयक द्वितीय (945ई०-972ई०), चंदेल वंश, गहड़वाल वंश, कलचुरी वंश, चौहान वंश (चाहमान)

८. **बाह्य आक्रमण का दौर (७११ई०-१२००ई०),** अरबों द्वारा सिंध विजय से पूर्व भारत की दशा, महमूद गजनवी के आक्रमण (999ई०-1026ई०), मोहम्मद गौरी का आक्रमण (1180ई०-1192ई०)

९. **मुस्लिम आक्रमणों के कारण व प्रभाव,** भारत में तुर्कों का आगमन, तुर्क आक्रमणों के पूर्व भारत की स्थिति, तुर्कों की सफलता के कारण, दिल्ली सल्तनत की स्थापना के परिणाम

(NEP 2020, CMS Uttar Pradesh)




# Ancient India, 14e

## V D Mahajan

### About the Book

This textbook narrates the ancient Indian history from the genesis of civilisations to the early middle ages. It examines the sources, chronology of civilisations and authoritatively details the facts, feats, triumphs and religious crusades of the period. It unveils the rich cultural, religious and social diversity that is uniquely and peculiarly Indian.

### Key Features

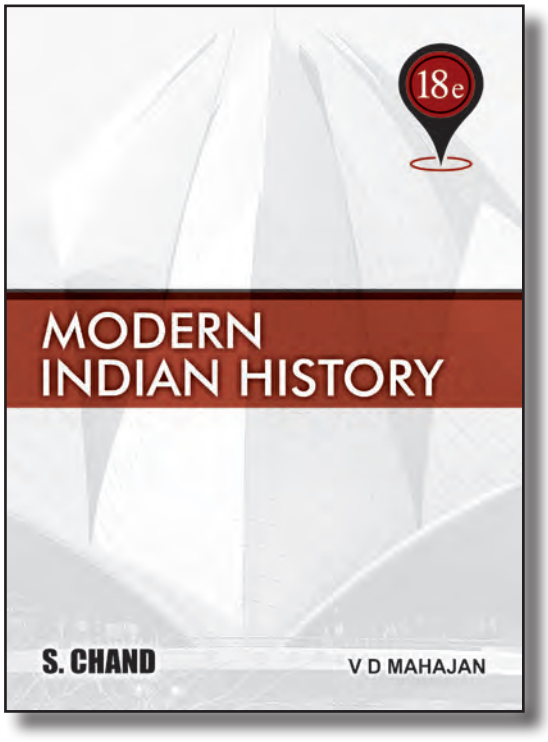
- Balanced account of historical transition from ancient to middle ages
- Insightful interpretation of evidential sources, theory and disputations
- Interesting exposition of specific cultures and political, social, cultural, linguistic and economic developments

**ISBN: 9789352837243 | Price: ₹ 450 | Pages: 696 | Size: 6.75" X 9.5" (Paperback)**

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- Appendix Modern Historians of Ancient India
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**V D Mahajan,** Formerly Professor, History & Political Science, Punjab University, Lahore and Faculty of Law, University of Delhi.




# Modern Indian History, 18e

## V D Mahajan

### About the Book

Written in an easy-to-understand language, this informative and well-written textbook provides an interpretive and comprehensive account of the history of modern India from 1707 to the present day.

Organised into 44 chapters in two parts, the textbook commences with a discussion on the decline and disintegration of the Mughal Empire and walks us through the advent of Europeans and the phases of British imperialism. It also provides a detailed discussion on the important aspects of Indian National Movement introducing contributions of prominent leaders of the Movement. It is fortified with questions at the end of each chapter to help students prepare for the examinations.

Besides the students of History and Law, this textbook would also be of immense value to the aspirants of various competitive examinations, especially IAS, PCS and NET

### Key Features

- Balanced account of historical transition from 1707 to the modern times
- Insightful interpretation of evidential sources, theory and disputations of events of historical importance
- Interesting exposition of impact of British rule on political, social, cultural, linguistic and economic spheres

**ISBN: 9789352836192 | Code: 9789352836192 | Price: ₹ 650 | Pages: 720 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Part A:

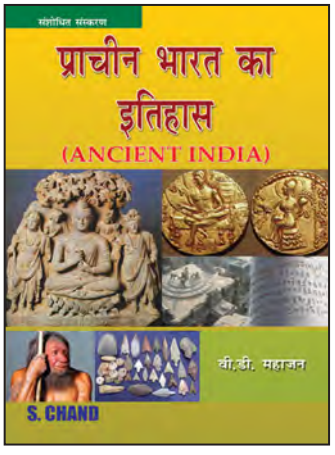
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2. Rise of Autonomous States
3. Society and Culture in the Eighteenth Century

Part B:

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2. Rise and Growth of the English and French East India Companies
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**V D Mahajan,** Formerly Professor, History & Political Science, Punjab University, Lahore and Faculty of Law, University of Delhi




## प्राचीन भारत का इतिहास

वी डी महाजन

### पुस्तक के विषय में

इस पुस्तक में सभ्यताओं की उत्पत्ति से लेकर आरम्भिक मध्य युग तक प्राचीन भारत के इतिहास का वर्णन है। इसमें सभ्यताओं के स्रोत एवं कालक्रम का विवरण दिया गया है साथ ही विभिन्न युगों के कार्य, उनकी उपलब्धियों, सफलताओं एवं असफलताओं पर भी प्रकाश डाला गया है। इस पुस्तक में भारत की विशिष्ट सांस्कृतिक, धार्मिक एवं सामाजिक विविधताओं को दर्शाया गया है। प्राचीन भारत के इतिहास के विद्यार्थियों के अलावा यह पुस्तक विभिन्न प्रतियोगी परीक्षाओं में सम्मिलित हो रहे अभ्यर्थियों के लिए भी उपयोगी है।

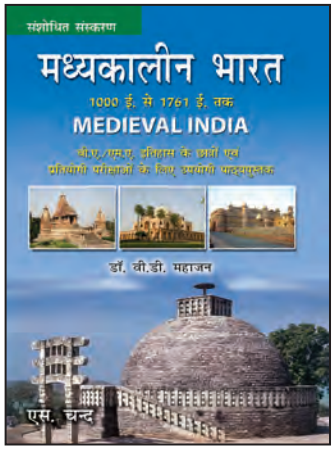
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## मध्यकालीन भारत

वी डी महाजन

### पुस्तक के विषय में

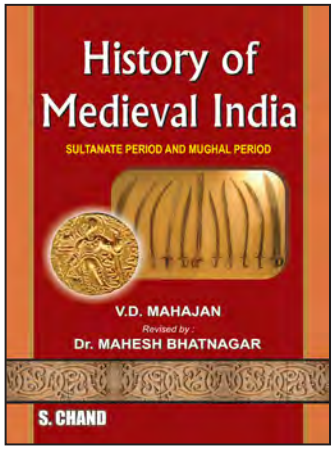
भारत के प्रस्तुत संशोधित संस्करण में देश के विभिन्न विश्वविद्यालयों के नवीनतम पाठ्यक्रमों तथा विभिन्न प्रतियोगिता परीक्षाओं के पाठ्यक्रमों को दृष्टि में रखते हुए आवश्यक संशोधन किए हैं। पुस्तक के इस संस्करण में भाषा को अधिक सरल और प्रवाहपूर्ण बनाकर प्रस्तुत किया गया है। पुस्तक के पुराने अध्यायों को नया रूप दिया गया है तथा उनमें कुछ विस्तार किया गया है। मध्यकालीन भारतीय इतिहास से संबंधित जो भी महत्त्वपूर्ण सामग्री हो सकती है, उसे इस संशोधित एवं परिवर्धित संस्करण में शामिल किया गया है। प्रत्येक अध्याय के अन्त में दीर्घ उत्तरीय, लघु उत्तरीय और बहुविकल्पीय वस्तुनिष्ठ प्रश्नों की संख्या में भी पर्याप्त वृद्धि की गई है, जोकि विद्यार्थियों के लिए बहुत उपयोगी सिद्ध होगी। इस पुस्तक के प्रथम अध्याय में पर्याप्त संशोधन किए गए हैं। इस अध्याय के महत्व को दृष्टि में रखते हुए इसे अत्यधिक सरल एवं रोचक ढंग से प्रस्तुत किया गया है। प्रस्तुत पुस्तक के दो भाग 'दिल्ली सल्तनत' तथा 'मुगलकाल' की समाप्ति पर अत्यन्त महत्त्वपूर्ण परिशिष्ट प्रस्तुत किए गए हैं। जो विद्यार्थियों के लिए मध्यकालीन इतिहास के अध्ययन की दृष्टि से बहुत उपयोगी सिद्ध होंगे।

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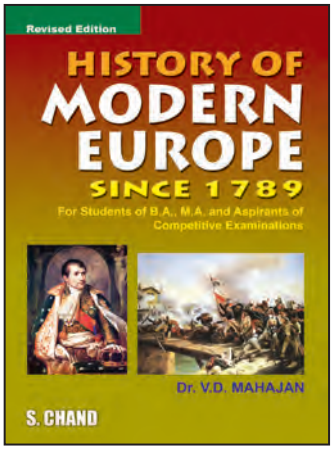
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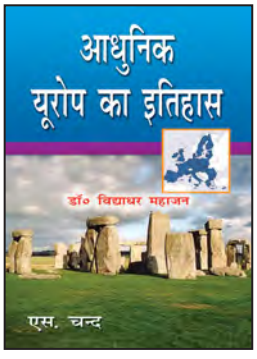
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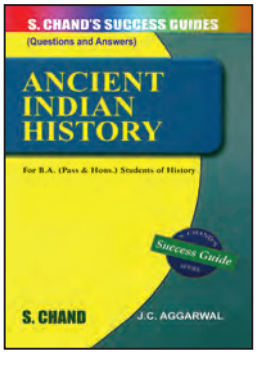

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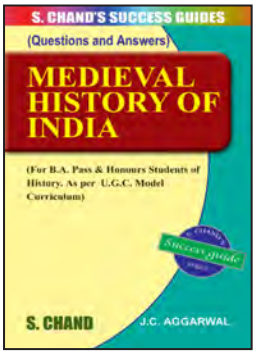
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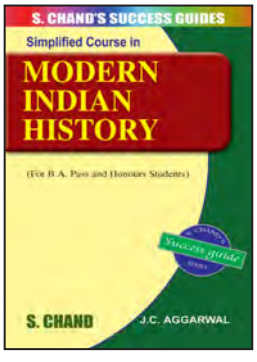
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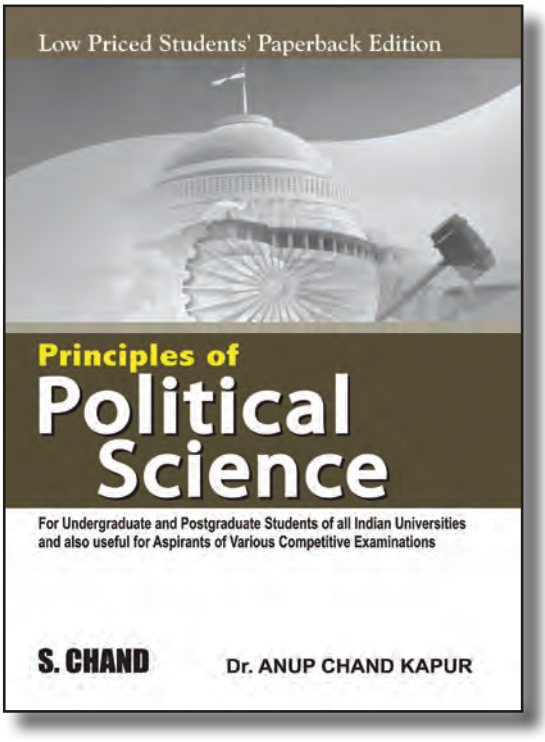
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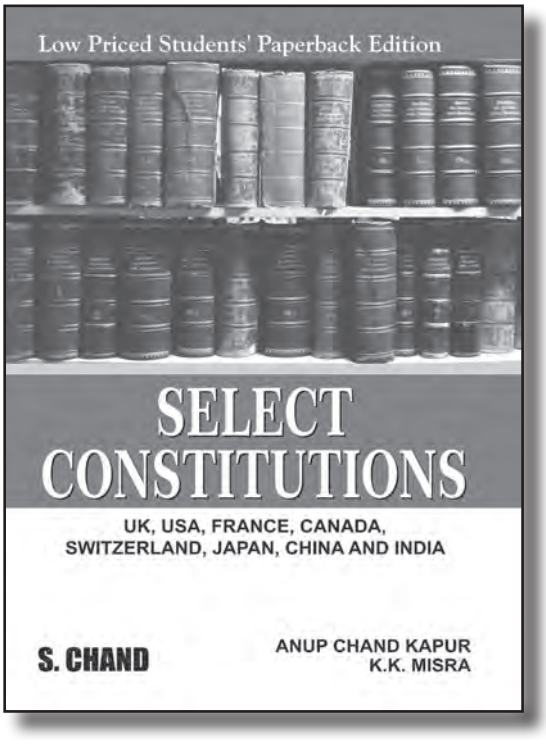
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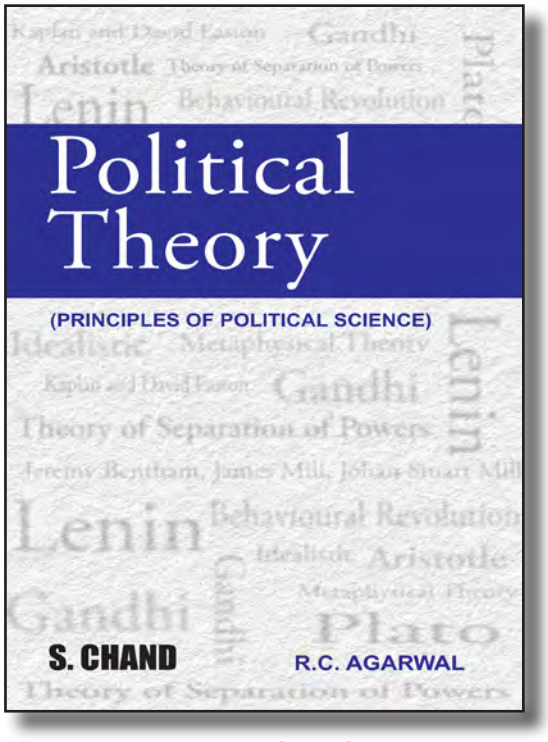
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# Political Theory

R C Agarwal

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Comprehensively written, this book presents the political theories, concepts, analysis, thoughts and main currents. The book begins with introduction to political theory, its history, evolution & approaches while also discussing forms & organs of Government. It progresses to discuss contemporary political analysis in light of American concepts and main currents of Political Thought in detail. This book would be extremely useful for the students pursuing BA Political Science.

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**R C Agarwal,** Formerly Principal, Government College, Naraingarh, Ambala.

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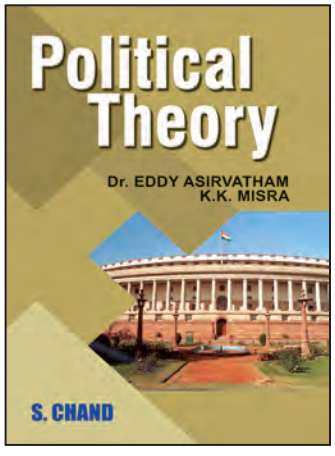
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Eddy Asirvatham & K K Misra

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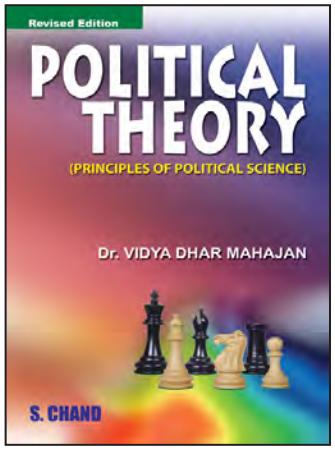
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**Eddy Asirvatham,** Formerly Professor of Political Science and Public Administration at various universities in India and U.S.A.
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Vidya Dhar Mahajan

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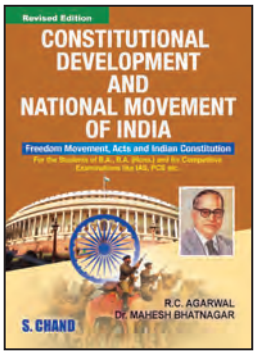
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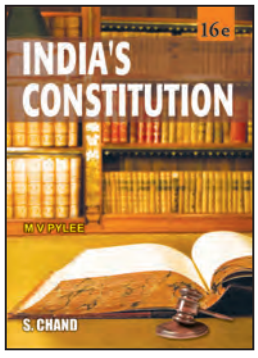

## Constitutional Development and National Movement of India

R C Agarwal &
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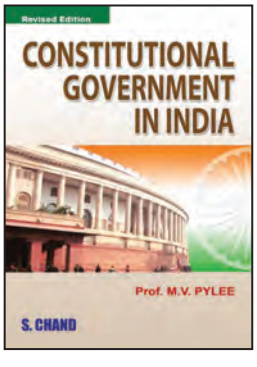

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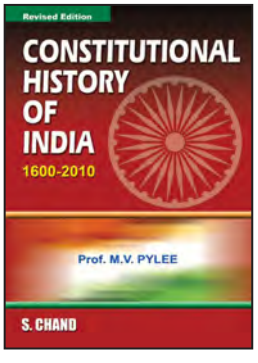

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M V Pylee

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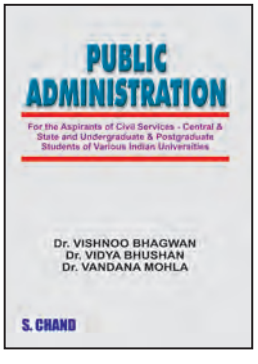

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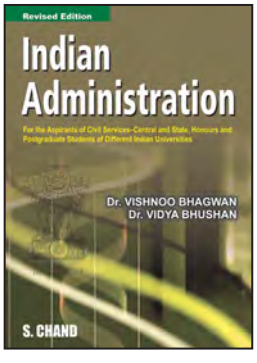
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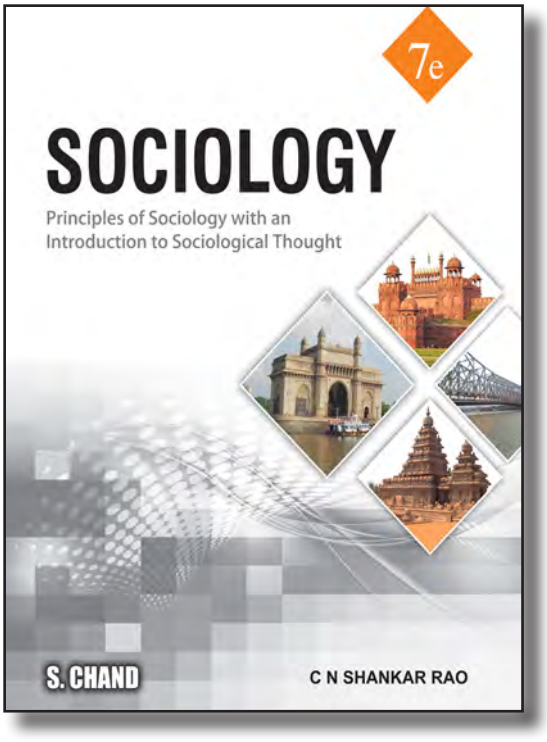
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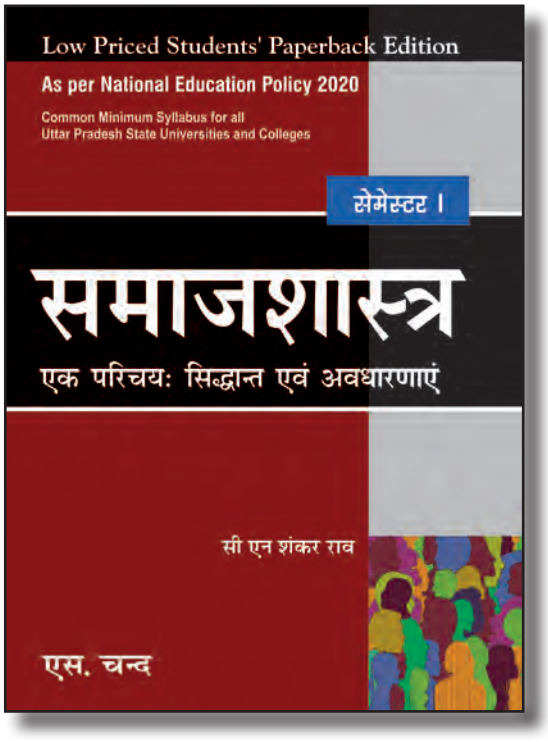
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- *Annexure to Chapter 20: Social Differentiation and Social Stratification*
- *Bibliography*

**C N Shankar Rao,** Canara Pre-University College, Mangalore.




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## एक परिचय: सिद्धान्त एवं अवधारणाएं

New

**सेमेस्टर–I NEP-2020-Uttar Pradesh**

सी एन शंकर राव

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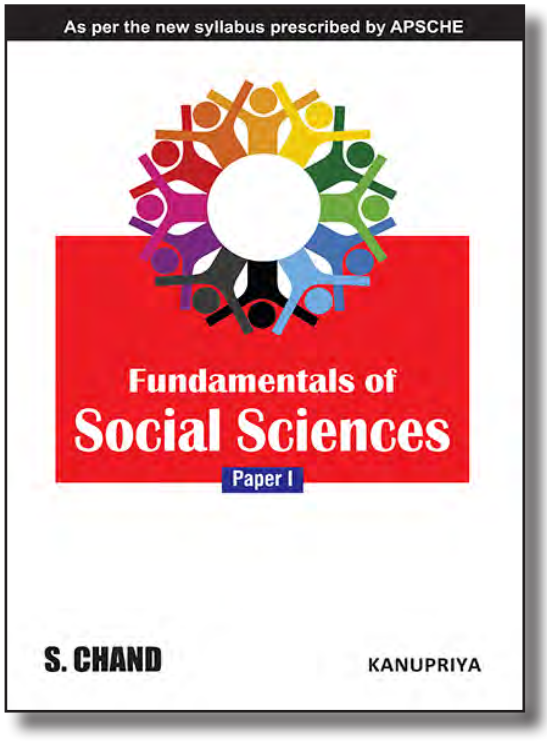
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(NEP 2020, CMS Uttar Pradesh)




# Fundamentals of Social Sciences
## Paper I As per the new syllabus prescribed by APSCHE

Kanupriya

### About the Book

This book has been primarily designed to meet the needs of Undergraduate students for the Andhra Pradesh State Council of Higher Education (APSCHE). It comprehensively covers the Paper I, namely, Fundamentals of Social Sciences. This book has been divided into five units, comprising of 20 chapters. The book will help the students to learn about the importance of social science, understand the emergence of culture and history, society and social behaviour, political economy and knowledge on applications of computer technology including, internet basics, Cryptography, ethical and social implications. All the topics have been aptly discussed as per the requirements of the syllabus.

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- Written in lucid manner for better understanding of concept
- Engaging chapter-end exercises have been provided for practice

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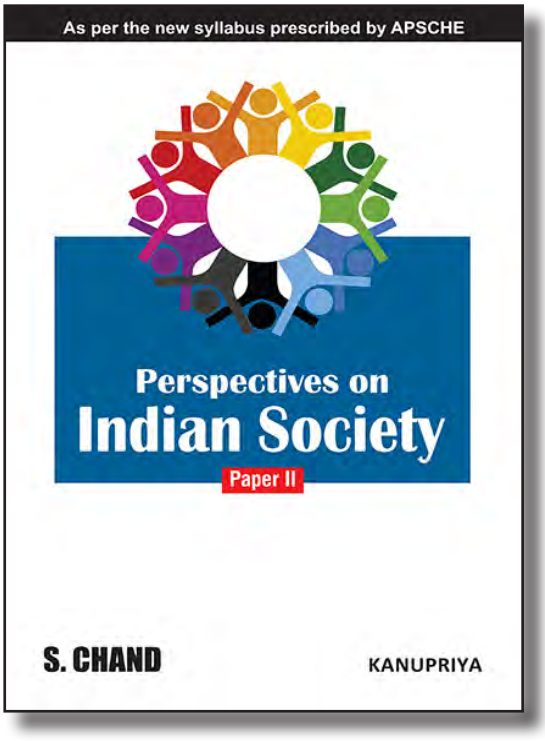
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Unit V: Essentials of Computer
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(NEP 2020, CMS Uttar Pradesh)




# Perspectives on Indian Society

## Paper II As per the new syllabus prescribed by APSCHE

Kanupriya

### About the Book

This book has been primarily designed to meet the needs of Undergraduate students for the Andhra Pradesh State Council of Higher Education (APSCHE). It comprehensively covers the Paper II, namely, Perspectives on Indian Society. This book has been divided into five units, comprising of 20 chapters. The book will help the students to learn about the significance of human behaviour and social dynamics, the Indian Heritage and freedom struggle. Topics like the philosophical foundations of Indian Constitution, Indian Economy and Impact on Society & Analytics including role and impact of computers on human behaviour, Social Networking like WhatsApp, Twitter and Facebook have been included as per the requirements of the syllabus.

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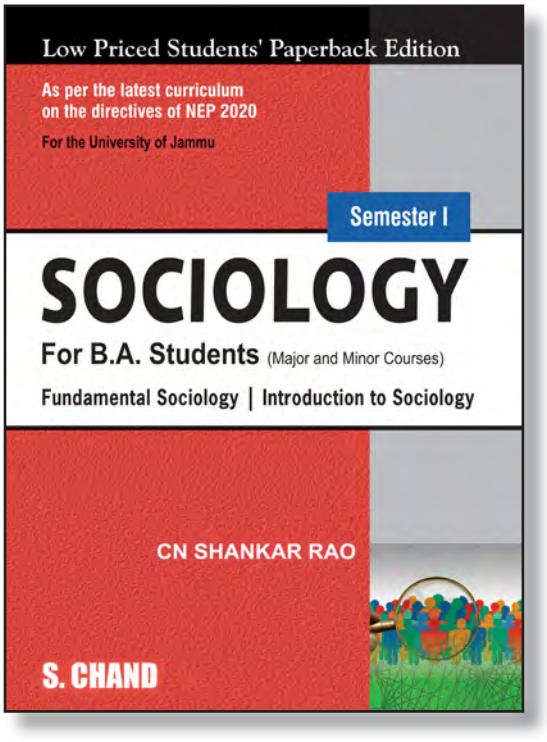
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12. Directive Principles of State Policy

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# Sociology : Semester I For B.A Students Social Institutions | Basic Institutions in Society (NEP 2020 – Jammu)

CN Shankar Rao

## About the Book

The book has been written to meet the needs of B.A first semester students of Sociology for the University of Jammu under the recommended National Education Policy 2020. It comprehensively covers the syllabus of both major and minor courses, namely Fundamental Sociology and Introduction to Sociology. This book has been divided into four units, comprising of eight chapters. Important fundamental concepts of sociology like, genesis of sociology, sociological perspectives: macro & micro and social institutions including its types & function have been aptly discussed. The book contains simple, lucid and precise explanation of the topics so that it becomes students friendly. This textbook can also be useful for students of sociology studying at the undergraduate level in all the other universities across India.

## Key Features

- In-depth discussion on relationship of sociology with other social sciences such as history, political science, economics and anthropology
- Review questions have been provided at the end of each chapter for students practice
- Students will find this book interesting and informative

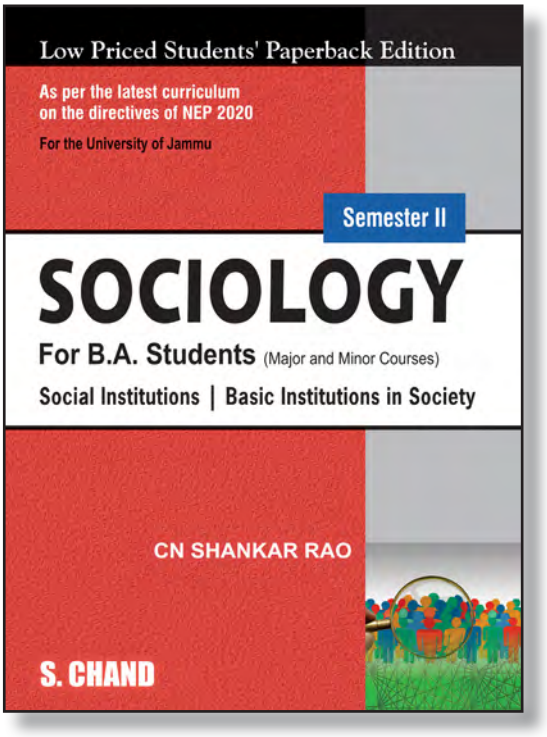
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## Contents

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4: Sociological Perspectives
Unit III: Basic Concepts
5: Society, Community and Association
6: Groups: Meaning and Types
7: Status and Role, Culture
Unit IV: Social Institutions
8: Social Institutions: Meaning and Characteristics

C N Shankar Rao, Canara Pre-University College, Mangalore

(NEP 2020 for the University of Jammu)




# Sociology : Semester II For B.A Students Social Institutions | Basic Institutions in Society (NEP 2020 – Jammu)

New

CN Shankar Rao

## About the Book

The book has been prepared to meet the needs of B.A Second Semester students of Sociology for the University of Jammu under the recommended National Education policy 2020. It comprehensively covers the syllabus of major and minor courses Social Institutions and Basic Institutions in Society. This book gives systematic introduction and explanation to all the four units of both the papers. All the Social Institutions namely, family and marriage, Kinship, religion and economy, polity and education including types of education and political system have been aptly duscussed. The book contains simple,lucid and precise explantion of the topics so that it becomes students friendly. It can serve as a general reference book for the soialogy students studying at the undergraduate level in all the other universities of India.

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## Key Features

- In-precise discussion on topics such as Family and Marriage, Kinship, Religion and Economy, Polity and Education.
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- Students will find this book interesting and informative in serving their needs

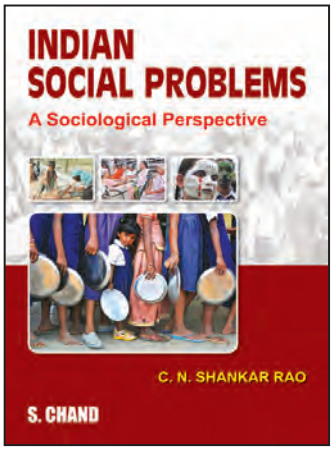
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## Indian Social Problems

C N Shankar Rao

### About the Book

This book entitled *'Indian Social Problems: A Sociological Perspective'* provides a glimpse of many social problems that have been haunting the Indian society since years, decades, and even centuries.

Though India is fast developing, it has lots of regional, cultural, linguistic and religious diversities. These diversities are also reflected in its social problems. This book covers social problems which are general in nature and common to the whole nation such as population problem, poverty, unemployment, child labour, urbanization, youth unrest, problems of the aged, family disorganization, corruption, crime and delinquency, etc.

This book is prepared mainly to cater to the needs of the undergraduate and postgraduate students. Most of the universities in India have prescribed one paper on ';Indian Social Problems' either at the undergraduate or postgraduate level. The book also covers topics that are included in the syllabi of IAS, NET, SLET, KAS and other national- and state-level competitive examinations. It also contains lessons that form part of MBA, nursing and five-year law courses. Such students and examinees will definitely find the book highly helpful.

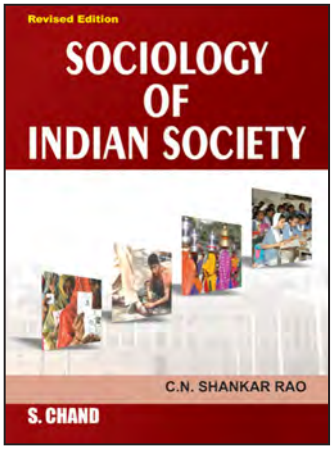
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## Sociology of Indian Society

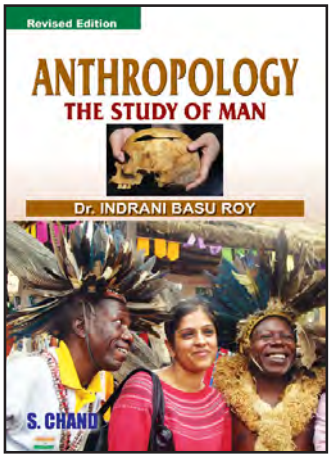
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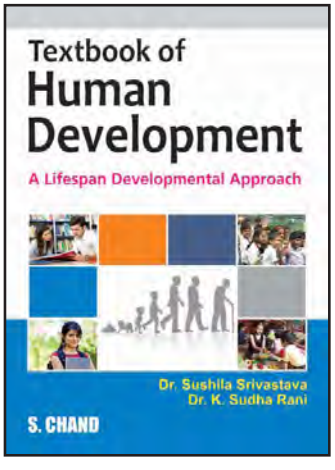

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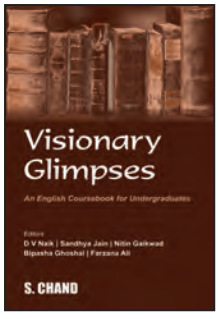

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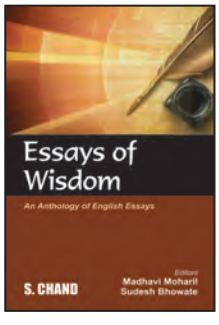

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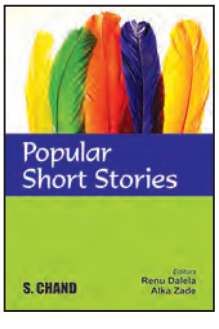

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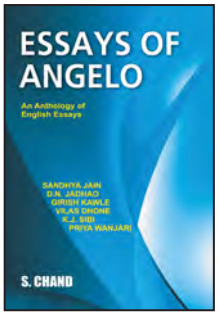

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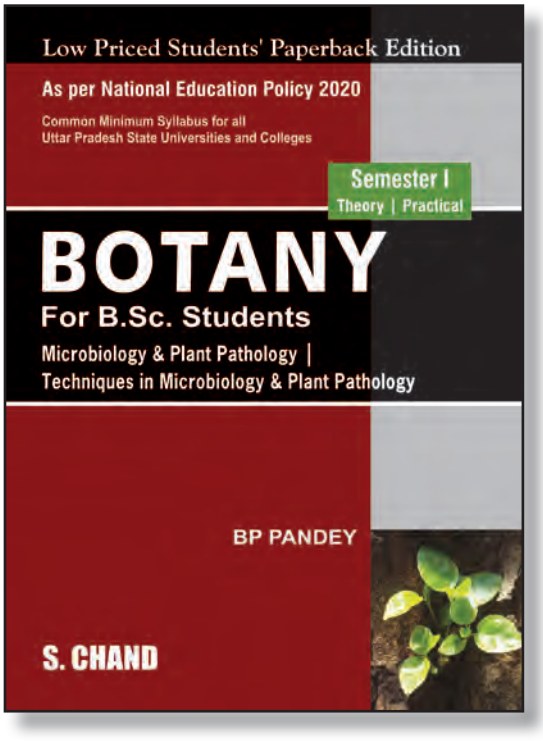
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# Botany for B.Sc. Students Semester I NEP-2020-Uttar Pradesh

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook not only provides strong conceptual understanding, but also helps in developing scientific outlook of the student. It comprehensively covers two papers, namely, Microbiology & Plant Pathology and Techniques in Microbiology & Plant Pathology. The book acquaints the students with the classification of different microbes including viruses, algae, fungi and lichens. It also discusses pathogen and plant disease management in detail and lucidly explains the concept of identifying microbes, pathogens, biofertilizers and lichens. Practical part enables the students to identify microbes and use them for Industrial, Agricultural and Environmental purposes.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

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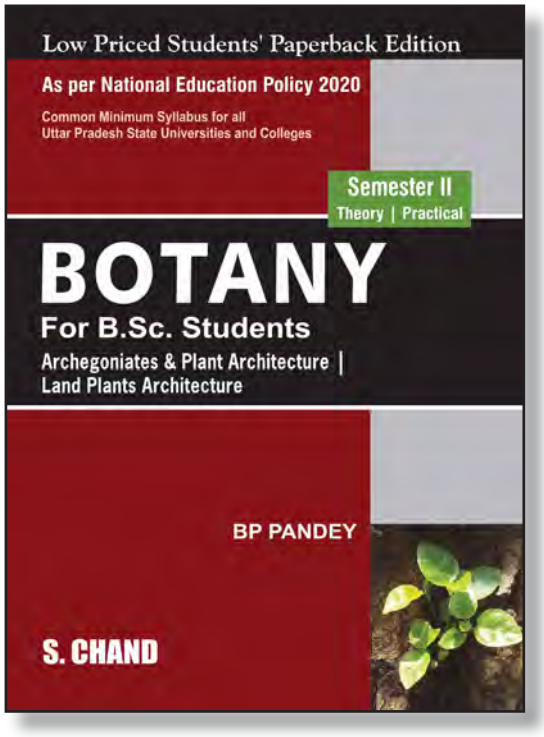
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8: Applied Microbiology-I
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10: Applied Microbiology-III

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Botany for B.Sc. Students Semester II NEP-2020-Uttar Pradesh

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook not only provides strong conceptual understanding, but also helps in developing scientific outlook of the student. It comprehensively covers two papers, namely, Archegoniates & Plant Architecture and Land Plants Architecture. While it aptly discusses morphology, anatomy & reproduction of bryophytes, pteridophytes and gymnosperms, it also covers palaeobotany and palynology in great detail. Practical part, covering Land Plants Architecture, has been presented systematically to help students learn experimental procedures swiftly.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging unit-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

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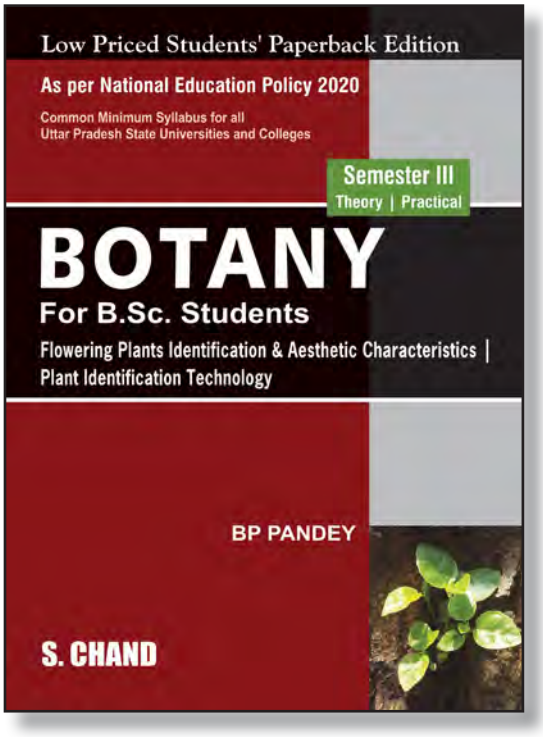
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**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Botany for B.Sc. Students Semester III NEP-2020-Uttar Pradesh

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Third Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, the book provides strong conceptual understanding and also helps in developing scientific outlook of the students. It comprehensively covers two papers namely, Flowering Plants Identification & Aesthetic Characteristics and Plant Identification Technology. The book acquaints the students with various approaches to plant taxonomy and classification of Angiosperms. It also covers diverse taxonomic resources, reference materials, herbarium collections and publications. Practical part, covering Plant Identification Technology, has been presented systematically to help students learn taxonomically diverse array of native plants.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

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6: Identification of Angiospermic Families - II
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8: Tools and Softwares in Plant Identification
9: Computer Usage and Android Application
10: Aesthetic Characteristics of Plants
11: Features of a Garden

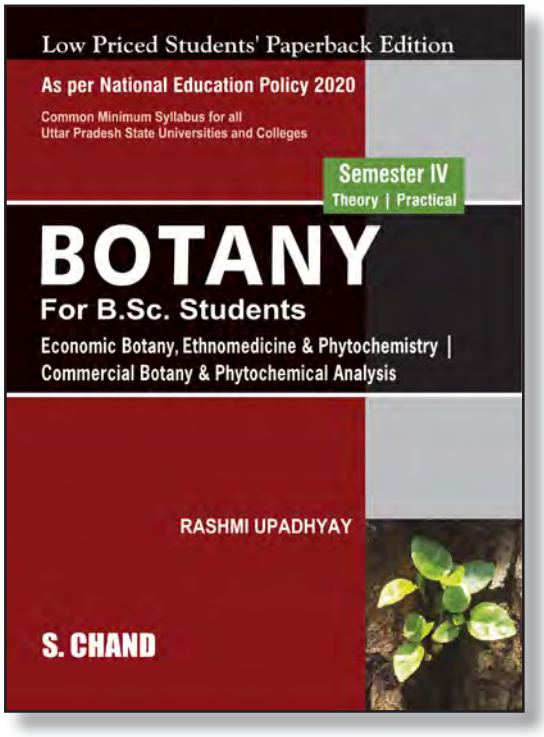
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4: Collection, Storage and Preservation of Plants
5: Nomenclature of Plants and Reporting Method
6: Computers
7: Computer Application in Taxonomy
8: Garden Creation and Plant Propagation Method

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(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Botany For B.Sc. Students Semester IV NEP-2020-Uttar Pradesh

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Fourth Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook not only provides strong conceptual understanding, but also helps in developing scientific outlook of the student. It comprehensively covers two papers, namely, Economic Botany, Ethnomedicine & Phytochemistry and Commercial Botany & Phytochemical Analysis. The book acquaints the students with the phytochemical analysis related to medicinally important plants and economic products produced by the plants, it also discusses the traditional medicines and herbs, and its relevance in modern times. Practical part, helps the students to know about the commercial products produced from plants and learn the chemistry of plants & herbal preparations.

## Key Features

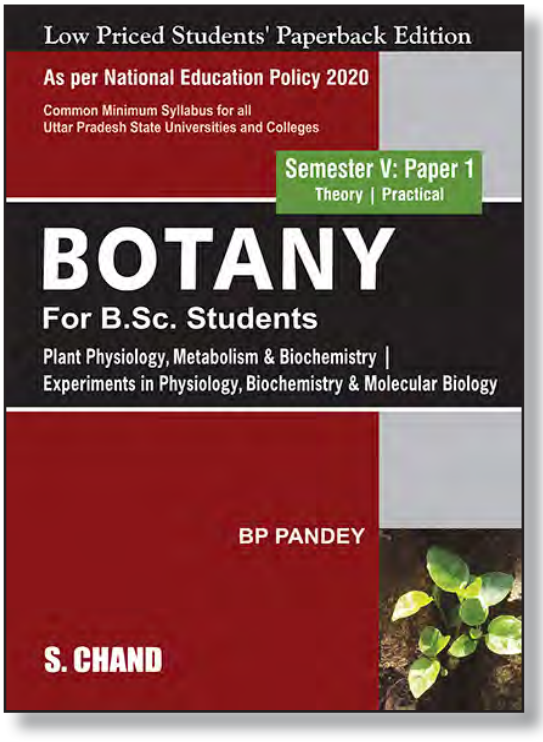
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

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9: Traditional Knowledge Digital Library
10: Ethnobotany
11: Medicinal Plants, Conservation and Management of Plant Resources
12: Features of a Garden
13: Herbal Preparation and Phytochemistry
Practical- PAPER II: COMMERCIAL BOTANY & PHYTOCHEMICAL ANALYSIS
1: Economic Botany and Microtechnique
2: Hydroponics and Commercial Greenhouse Cultivation
3: Cultivation of Medicinal and Aromatic Plants
4: Necessity of Traditional Knowledge, Digital Library and Excursion
5: Ethnobotany: Importance and Relevance
6: Instrumentation and Herbal Preparation
7: Pharmacognosy
8: Photochemistry

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Botany for B.Sc. Students Semester V: Paper 1 NEP-2020-Uttar Pradesh

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Fifth Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers Paper 1, namely, Plant Physiology, Metabolism & Biochemistry. The theory part of this book aptly discusses the role of physiological and metabolic processes for plant growth and development and explains the symptoms of mineral deficiency in crops and their management. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789355018151 | Price: ₹ 325 | Pages: 320 | Size: 6.5" X 9.25" (Paperback)**

## Contents

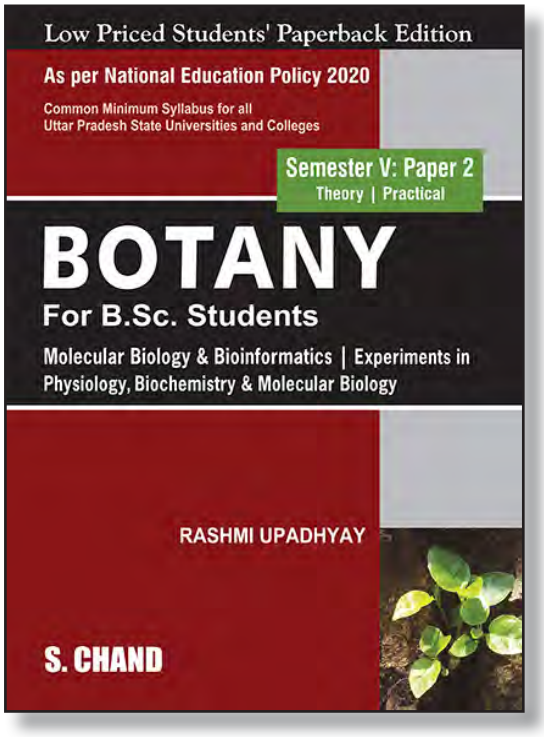
Theory
1: Plant–Water Relations
2: Mineral Nutrition
3: Translocation in Phloem
4: Respiration
5: Nitrogen Metabolism
6: Lipid (Fat) Metabolism
7: Photosynthesis
8: Plant Growth Regulators
9: Plant Response to Light (Photoperiodism) and Temperature (Vernalisation)
10: Biomolecules
11: Proteins
12: Nucleic Acids
13: Enzymes

Practical
1: Plant Water Relation, Mineral Nutrition and Translocation in Phloem
2: Nitrogen Metabolism, Photosynthesis and Respiration
3: Plant Development, Movements, Dormancy and Responses
4: Techniques for Biochemical Analysis

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Botany for B.Sc. Students Semester V: Paper 2 NEP-2020-Uttar Pradesh

Rashmi Upadhyay

## About the Book

This textbook has been designed to meet the needs of B.Sc. Fifth Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers Paper 2, namely, Molecular Biology & Bioinformatics. The theory part of this book aptly discusses the understanding of nucleic acids, organization of DNA in prokaryotes and eukaryotes, DNA replication mechanism, genetic code and transcription process. Students would also learn about processing and modification of RNA and translation process, function and regulation of gene expression. This textbook further discusses the working knowledge of bioinformatics. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn the experimental procedures

## Key Features

- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

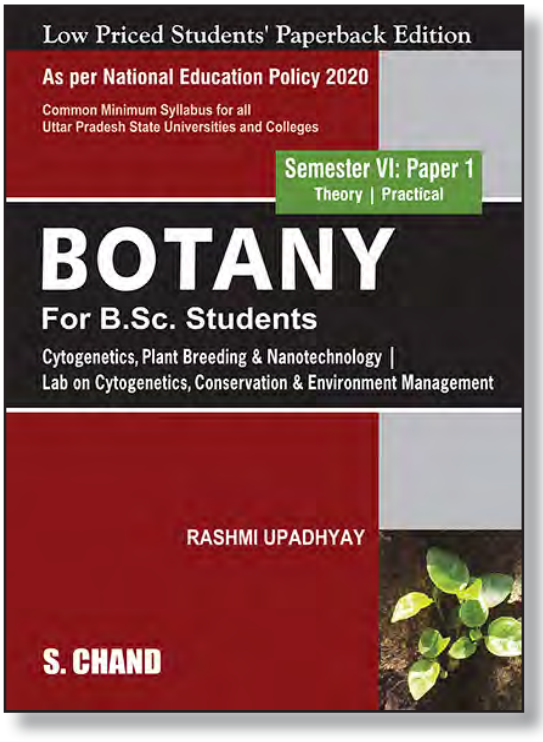
**ISBN: 9789355018168 | Price: ₹ 240 | Pages: 232 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Theory: Molecular Biology & Bioinformatics
1: Nucleic Acid as Genetic Material
2: DNA Replication
3: Transcription in Prokaryotes and Eukaryotes
4: Translation in Prokaryotes and Eukaryotes
5: Regulation of Gene Expression in Prokaryotes
6: Principles and Techniques of Genetic Engineering
7: Applications of Genetic Engineering
8: Bioinformatics and its Applications
9: Biological Databases
10: Data Retrieval
11: Methods of Sequence Alignment and Phylogenetic Analysis

Practical: Experiments in Physiology, Biochemistry & Molecular Biology
1: Genetic Material
2: Preparation of Models/Charts
3: Genetic Engineering
4: Genetic Engineering and its Applications in Various Fields

**Rashmi Upadhyay,** PhD, Assistant Professor, DAV Degree College, Lucknow, Uttar Pradesh.




# Botany for B.Sc. Students Semester VI: Paper 1 NEP-2020-Uttar Pradesh

Rashmi Upadhyay

## About the Book

This textbook has been designed to meet the needs of B.Sc. Sixth Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers the theory and practical papers namely, Cytogenetics, Plant Breeding & Nanotechnology and Lab on Cytogenetics, Conservation & Environment Management. The book introduces the students to acquire conceptual knowledge of cell biology including structure and function of cell wall, plasma membrane, ribosomes, Endoplasmic reticulum, Golgi apparatus, mitochondria, chloroplast, lysosomes, peroxisomes and cell inclusions. This book also discusses the genetics, plant breeding, biostatistics, plant tissue culture, nanotechnology, artificial intelligence in plant sciences and introduction of digital technologies – AI, IoT & ICT in botany. Practical part has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789358701104 | Price: ₹ 215 | Pages: 232 | Size: 6.5" X 9.25" (Paperback)**

## Contents

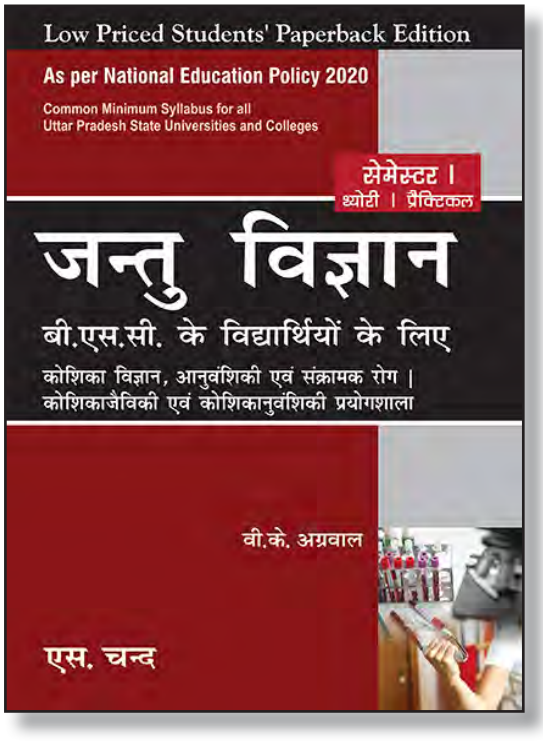
Theory: Cytogenetics, Plant Breeding & Nanotechnology
1: Structure and Function of Cell, Cell Wall and Cell Organelles
2: Organisation of Chromosomes and its Types
3: Cell Cycle
4: Chromosomal Aberrations
5: Chromosomal Basis of Inheritance
6: Sex Chromosomes and Sex Determination in Plants
7: Plant Introduction and Selection Methods in Plant Breeding
8: Male Sterility, Heterosis and its Exploitation in Plant Breeding
9: Mutation and Molecular Breeding for Disease and Pest Resistance
10: Biostatistics
11: Plant Tissue Culture and Secondary Metabolite Production
12: Nanotechnology: Advantages and Applications of Bionanomaterials
13: Artificial Intelligence in Plant Sciences
14: Introduction to Use of Digital Technologies–AI, IoT, and ICT in Botany

Practical: Lab on Cytogenetics, Conservation & Environment Management
1: Plant Cell Structure, its Stages and the Measurement of Cell Size
2: Mutations and Gene Interactions
3: Biostatistics
4: Plant Tissue Culture

**Rashmi Upadhyay,** PhD, Assistant Professor, DAV Degree College, Lucknow, Uttar Pradesh.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# जन्तु विज्ञान बी.एस.सी. के विद्यार्थियों के लिए सेमेस्टर I NEP-2020-Uttar Pradesh

V.K. Agarwal

## पुस्तक के विषय में

यह पाठ्यपुस्तक अनुशंसित राष्ट्रीय शिक्षा नीति 2020 के अंतर्गत उत्तर प्रदेश राज्य के सभी विश्वविद्यालयों और कॉलेजों के बी.एस.सी. जन्तु विज्ञान के प्रथम सेमेस्टर के विद्यार्थियों के लिए विकसित की गई है। विषय के प्रति पारंपरिक दृष्टिकोण को बनाए रखते हुए, इस पाठ्यपुस्तक में दो प्रपत्र 'कोशिका विज्ञान, आनुवंशिकी एवं संक्रामक रोग' और 'कोशिकाजैविकी एवं कोशिकानुवंशिकी प्रयोगशाला' शामिल किए गए हैं। यह पाठ्यपुस्तक आनुवंशिकी और संक्रामक रोगों का संपूर्ण अवलोकन देती है। इसमें कोशिका अंगकों की संरचना और कार्य, केंद्रक, कोशिका चक्र, कोशिका विभाजन, मानवगुणसूत्र और इसके वंशानुक्रम के पैटर्न जैसे महत्वपूर्ण विषयों को उपयुक्त रूप से शामिल किया गया है। थ्योरी भाग में रोगजनक जीवों और उनके कारण होने वाले संक्रामक रोगों पर भी चर्चा की गई है। छात्रों को उत्तम वैचारिक समझ प्रदान करने और प्रायोगिक प्रक्रियाओं को सीखने में मदद करने के लिए 'कोशिकाजैविकी एवं कोशिकानुवंशिकी प्रयोगशाला' को प्रैक्टिकल भाग में व्यवस्थित रूप से प्रस्तुत किया गया है।

## प्रमुख विशेषताएँ:

- विषय को रोचक और आकर्षक बनाने के लिए चित्र और उदाहरण
- प्रत्येक अध्याय के अंत में अभ्यास प्रश्न
- विषय के व्यवहारिक पहलू को सीखने और याद रखने में रुचि बढ़ाने एवं सहायता करने के लिए प्रयोगों का संग्रह

**ISBN: 9789355018984 | Price: ₹ 450 | Pages: 520 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**थ्योरी**

**पेपर I: कोशिका विज्ञान, आनुवंशिकी एवं संक्रामक रोग**

1. प्लाज्मा झिल्ली
2. कोशिका- कोशिका अंत: क्रिया, कोशिका जंक्शन, कोशिका आसंजन और बाह्य कोशिकीय मैट्रिक्स (ईसीएम)
3. आंतरिक झिल्ली तंत्र: I. एंडोप्लाज्मिक रेटिकुलम (ईआर)
4. आंतरिक झिल्ली तंत्र: II. गॉल्जीकाय
5. आंतरिक झिल्ली तंत्र: III. प्रोटीन लक्ष्यीकरण और छँटाई; अंत: कोशिकीय और बाह्य कोशिकीय
6. कोशिकापंजर: सूक्ष्म नलिकाएं, सूक्ष्म तंतु, मध्यवर्ती तंतु
7. माइटोकॉन्ड्रिया
8. पेरॉक्सिसोम्स और राइबोसोम्स की संरचना और कार्य
9. नाभिक
10. आनुवंशिक पदार्थ (DNA और RNA)
11. क्रोमोसोम्स और DNA के प्रकार
12. गैर-आनुवंशिक RNAs
13. कोशिका चक्र और कोशिका विभाजन: समसूत्री और अर्धसूत्री विभाजन
14. एपोप्टोसिस या प्रोग्राम्ड सेल डेथ (PCD)
15. कोशिका सिग्नलिंग (संदेशवाहक, रिसेप्टर्स और सिग्नल ट्रांसडक्शन)
16. आनुवंशिकी का परिचय और इतिहास
17. पूर्ण प्रभुत्व, अपूर्ण प्रभुत्व और सहप्रभुत्व
18. क्रोमोसोमल और पर्यावरणीय लिंग निर्धारण और लिंग विभेदन
19. सेक्स लिंकेज (सेक्स-लिंक्ड वंशानुक्रम)
20. लिंग से प्रभावित एवं लिंग सीमित लक्षण; जीनोमिक चिह्न
21. एकाधिक एलील्स
22. जीन्स की परस्पर क्रिया
23. गैर-क्रोमोसोमल वंशानुक्रम (साइटोप्लाज्मिक वंशानुक्रम)
24. सतत विशेषताओं की विरासत (पॉलीजेनिक विरासत) और जीन अभिव्यक्ति पर वातावरणीय प्रभाव
25. मानव क्रोमोसोम्स, कैरियोटाइप और क्रोमोसोमल विसंगतियाँ
26. मानव आनुवंशिकी (वंशावली विश्लेषण; वंशानुक्रम का पैटर्न)
27. मनुष्य के संक्रामक रोग
28. ट्रिपनोसोमा
29. जिआर्डिया
30. वुचेरेरिया बैन्क्रॉफ्टी (फाइलेरिया) (फाइलम नेमाटोडा)

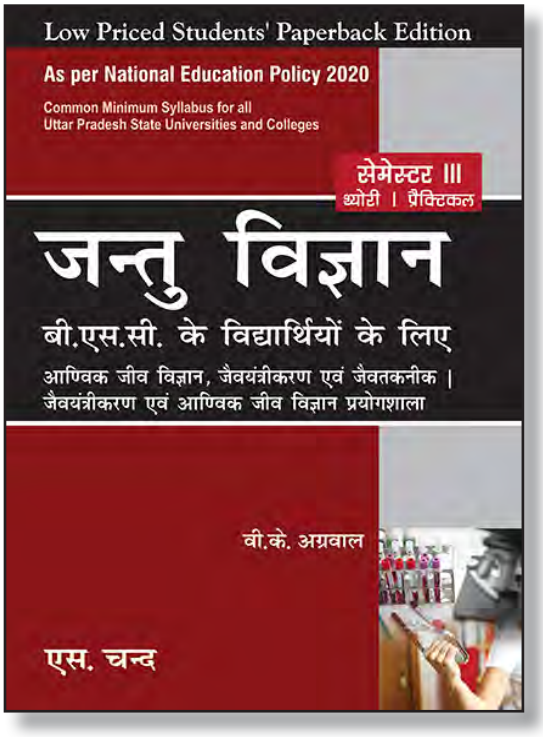
**प्रैक्टिकल**

**पेपर II: कोशिकाजैविकी एवं कोशिकानुवंशिकी प्रयोगशाला**

1. ऊतकों के विभिन्न कोशिका प्रकारों का अध्ययन
2. माइटोसिस का अध्ययन
3. पशु कोशिका में मियोसिस का अध्ययन
4. आण्विक मॉडल्स
5. ऑस्मोसिस
6. परजीवी प्रोटोजोआ और हेल्मिंथ का अध्ययन
7. अस्थायी और स्थायी मार्उटिंग की तैयारी
8. ड्रोसोफिला के उत्परिवर्ती फेनोटाइप
9. विशाल गुणसूत्रों का अध्ययन
10. बुक्कल स्मीयर (मानव) में सेक्स क्रोमैटिन (बर्र बॉडीज) का अध्ययन
11. वंशावली चार्ट तैयार करना

मौखिक परीक्षा

**VK Agarwal,** MSc, PhD, Former Head of the Zoology Department, Meerut College, Meerut, Uttar Pradesh.




# जन्तु विज्ञान बी.एस.सी. के विद्यार्थियों के लिए सेमेस्टर III NEP-2020-Uttar Pradesh

V.K. Agarwal

## पुस्तक के विषय में

यह पाठ्यपुस्तक अनुशंसित राष्ट्रीय शिक्षा नीति 2020 के अंतर्गत उत्तर प्रदेश राज्य के सभी विश्वविद्यालयों और कॉलेजों के बी.एस.सी. जन्तु विज्ञान के तृतीय सेमेस्टर के विद्यार्थियों के लिए विकसित की गई है। विषय के प्रति पारंपरिक दृष्टिकोण को बनाए रखते हुए, इस पाठ्यपुस्तक में दो प्रपत्र 'आण्विक जीव विज्ञान, जैवयंत्रीकरण एवं जैवतकनीक' और 'जैवयंत्रीकरण एवं आण्विक जीव विज्ञान प्रयोगशाला' शामिल किए गए हैं। पुस्तक का आण्विक जीव विज्ञान भाग डीएनए, आरएनए और प्रोटीन संरचना कार्य और अभिव्यक्ति के विभिन्न पहलुओं की मूलभूत विशेषताओं पर जोर देता है। प्रोकैरियोट्स और यूकैरियोट्स में जीन अभिव्यक्ति का विनियमन बहुत स्पष्ट और व्यापक तरीके से प्रस्तुत किया गया है। प्रैक्टिकल भाग में 'जैवयंत्रीकरण एवं आण्विक जीव विज्ञान प्रयोगशाला' को एक व्यवस्थित रूप से प्रस्तुत किया गया है।

## प्रमुख विशेषताएँ:

- विषय को रोचक और आकर्षक बनाने के लिए चित्र और उदाहरण
- प्रत्येक अध्याय के अंत में अभ्यास प्रश्न
- विषय के व्यवहारिक पहलू को सीखने और याद रखने में रुचि बढ़ाने एवं सहायता के लिए प्रयोगों का संग्रह

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**थ्योरी**

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9. पोस्ट-ट्रांसलेशनलप्रोटीन का प्रसंस्करण
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21. प्रोटिओमिक्स: प्रोटीन, पेज, एलिसा और वेस्टर्न ब्लॉटिंग का पता लगाना

**प्रैक्टिकल**

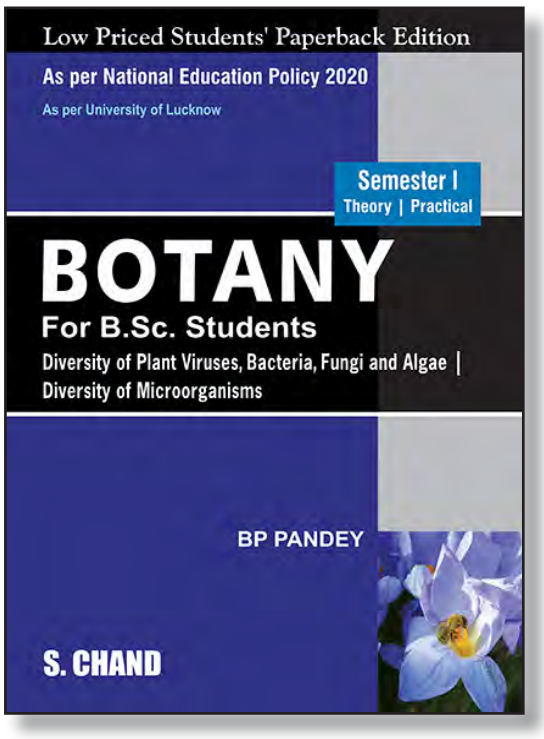
**पेपर II: जैवयंत्रीकरण एवं आण्विक जीव विज्ञान प्रयोगशाला**

1. सूक्ष्मदर्शी
2. विलयन और बफर तैयार करना
3. स्पेक्ट्रमी प्रकाशमिति और वर्णलेखन में प्रयोग
4. मौखिक परीक्षा

**VK Agarwal,** MSc, PhD, Former Head of the Zoology Department, Meerut College, Meerut, Uttar Pradesh.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Botany for B.Sc. Students Semester I NEP 2020 for the University of Lucknow

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Botany for the University of Lucknow under the recommended National Education Policy 2020. It comprehensively covers the theory and practical papers Diversity of Plant Viruses, Bacteria, Fungi and Algae and Diversity of Microorganisms, respectively. The theory part of the text introduces the students to develop an understanding about the classification and diversity of plant viruses, bacteria, fungi, algae and lichens. It also discusses the role played by each group in the biosphere along with their economic importance. The practical part of the book helps the students identify the groups based on their morphological characteristics and also learn their pathogenic aspects. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn the experimental procedures.

## Key Features

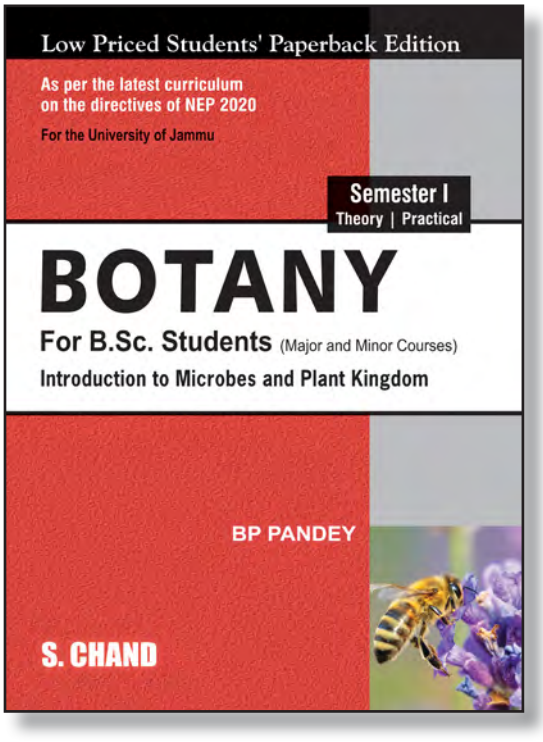
- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

**ISBN: 9789355018465 | Price: ₹ 550 | Pages: 520 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Theory: Diversity of Plant Viruses, Bacteria, Fungi and Algae
1: Plant Viruses: Introduction
2: Plant Viruses, Infections and Symptoms
3: Transmission of Plant Viruses
4: Tobacco Mosaic Virus: Pathology and Genomics
5: Techniques in Plant Virology
6: Bacteriophages and Viroids: Structure and Replication
7: Overview of Cell Structure and Function in the Prokaryotes
8: Classification of Prokaryotes based on Cell Structure
9: Metabolic Diversity of Bacteria
10: Bacterial Cell Division and Microbial Growth
11: Bacterial Genome and Plasmids
12: Economic Importance of Bacteria
13: Overview of Eukaryotic Cell Structure
14: Classification and Thallus Organisation of Fungi
15: Reproduction in Fungi and its Economic Importance
16: Case Studies of Fungi
17: Class: Oomycetes
18: Class: Ascomycetes
19: Class: Basidiomycetes
20: Class: Deuteromycetes
21: Lichens
22: Algae: An Introduction
23: Chlorophycophyta–Chlorophyceae (Green Algae)
24: Xanthophycophyta–Xanthophyceae (Yellow-Green Algae)
25: Phaeophycophyta–Phaeophyceae (Brown Algae)
26: Rhodophycophyta–Rhodophyceae (Red Algae)
27: Ultrastructure of Algal Cells and Cyanobacteria
Practical: Diversity of Microorganisms
1: Instruments and Techniques
2: Bacterial Identification
3: Biochemical Characterization
4: Mycological Study
5: Phycology

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Botany for B.Sc. Students Semester I NEP 2020 for the University of Jammu

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Botany for the University of Jammu under the recommended National Education Policy 2020. This textbook gives a thorough overview of Introduction to Microbes and Plant Kingdom, it aptly covers diversity of microbes and cryptogams which deals with significance & economic importance of microbes, viruses, bacteria, bryophytes and pteridophytes respectively. The book acquaints the students with systematic discussion on algal, fungal, lichens and phanerogam diversity, further it extensively covers the study of gymnosperms and angiosperms. Practical part has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning the practical aspect of the subject

**ISBN: 9789355012708 | Price: ₹ 425 | Pages: 488 | Size: 6.5" X 9.25" (Paperback)**

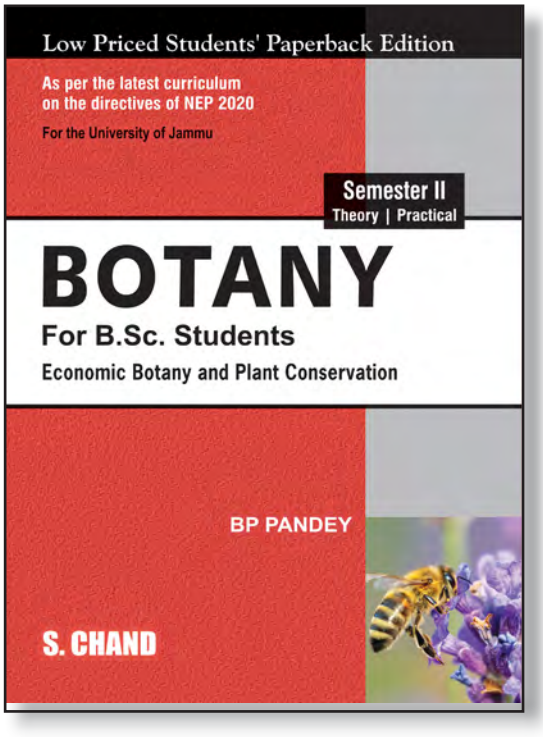
## Contents

Theory
UNIT I: MICROBIAL DIVERSITY
1: Microbes
2: Viruses
3: Bacteria
UNIT II: ALGAL, FUNGAL & LICHEN DIVERSITY
4: Algae
5: Fungi
6: Lichens
7: Mycorrhiza
UNIT III: CRYPTOGAM DIVERSITY
8: Bryophytes
9: Pteridophytes
UNIT IV: PHANEROGAM DIVERSITY
10: Gymnosperms
11: Angiosperms
Practical
1: Laboratory Methods
2: Viruses
3: Bacteria
4: Algae
5: Cyanophycophyta-Myxophyceae
6: Chlorophyceae
7: Phaeophyceae
8: Rhodophyceae
9: Zygomycotina Zygomycetes
10: Ascomycotina Ascomycetes
11: Basidiomycotina Basidiomycetes
12: Deuteromycotina Deuteromycetes
13: Lichens
14: Bryophyta
15: Hepaticopsida
16: Bryopsida
17: Pteridophytes
18: Arthrophyta
19: Pteridophytes (Pteridium)
20: Gymnosperms
21: Angiosperms

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020 for the University of Jammu)

(NEP 2020 for the University of Jammu)




# Botany for B.Sc. Students Semester II NEP 2020 For the University of Jammu

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany for the University of Jammu under the recommended National Education Policy 2020. This textbook comprehensively covers the theoretical and practical aspect of the paper Economic Botany and Plant Conservation. The theory part of the text introduces the students to understand the value of plants as sources of food, fodder, spices and drugs. The book also discusses the need to conserve the sustainable use of plants and design strategies for their effective conservation. Practical part has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

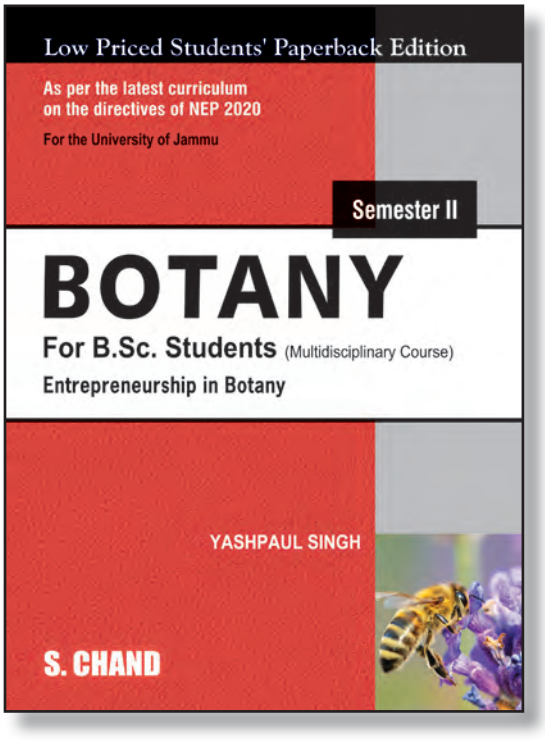
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789355016669 | Price: ₹ 275 | Pages: 248 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Theory
UNIT I: PLANTS AND CIVILIZATION
1: Centre of Origin and Domestication of Plants
UNIT II: UTILIZATION OF PLANTS-I
2: Food, Fibre and Fibre Yielding Plants
UNIT III: UTILIZATION OF PLANTS-II
3: Oil, Resins, Tannins, Gum & Rubber Yielding Plants and Dyes
UNIT IV: BIODIVERSITY AND PLANT CONSERVATION
4: Biodiversity and Conservation
Practical
5: Practicals

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Botany for B.Sc. Students Semester II: Entrepreneurship in Botany ( NEP 2020 – Jammu )

Yashpaul Singh

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany for the University of Jammu under the recommended National Education Policy 2020. It comprehensively covers the paper Entrepreneurship in Botany (multidisciplinary course). This book introduces the students to the practices used for growing, multiplying, value adding and maintaining economically important plant species. It aptly covers topics like food and fodder; horticulture, floriculture and MAP industry which deals with essential components of human nutrition, fodder crops, fruits, flowers and medicinal plants. Each chapter is written keeping in view the style of new pattern of setting questions in the examination like short answer type questions and long answer questions.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Relevant examples have been discussed in great detail at appropriate places

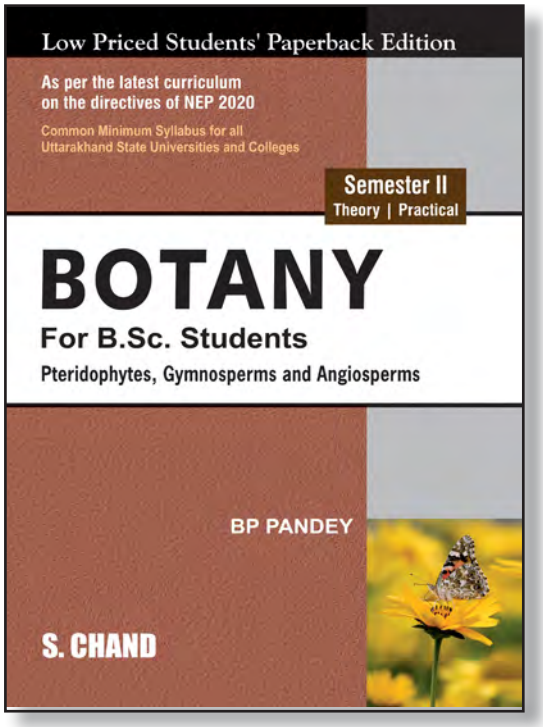
**ISBN: 9789355017604 | Price: ₹ 195 | Pages: 208 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Food and Fodder
Horticulture, Floriculture and MAP Industry
Vegetable Oil and Sugar Industry
Plant Fibres, Natural Dyes and Paper Industry

**Yashpaul Singh,** Associate Professor, former head, PT Prem Nath, Govt. Degree Collage Samba.

(NEP 2020 for the University of Jammu)




# Botany for B.Sc. Students Semester II NEP 2020 - Uttarakhand

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttarakhand State Universities and Colleges under the recommended National Education Policy 2020. This textbook comprehensively covers the theoretical and practical aspect of the paper Pteridophytes, Gymnosperms and Angiosperms.

The theory part of the text introduces the students to develop an understanding of morphology, anatomy and reproduction of Pteridophytes, Gymnosperms and Angiosperms. It also discusses the origin of angiosperms along with their phylogeny and classification in details. Furthermore, taxonomy of plant families has been discussed in systematic manner.

Practical part provides a strong conceptual understanding of the subject, it also helps in developing scientific outlook of the student.

## Key Features

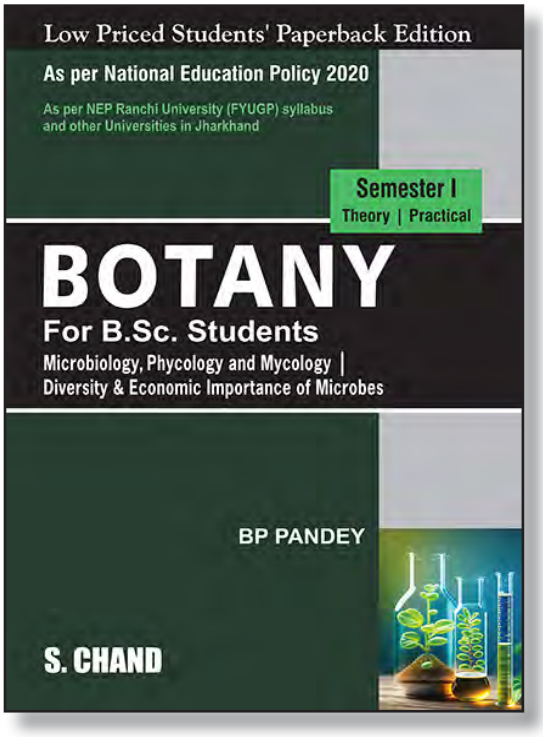
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Glossary of important terms has been provided at the end of few chapters

**ISBN: 9789355016683 | Price: ₹ 599 | Pages: 624 | Size: 6.5" X 9.25" (Paperback)**

## Contents


| Theory | Practical |
|---|---|
| 1: Pteridophyta | 1: Introduction to Laboratory Methods |
| 2: Gymnosperms | 2: Pteridophytes |
| 3: Introduction to Plant Taxonomy | 3: Gymnosperms |
| 4: Families (Taxonomy of Plant Families) | 4: Taxonomic Identification |
| | 5: Herbarium Technique |


**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Botany for B.Sc. Students Semester I NEP 2020 for the Universities in Jharkhand

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Botany as per Common Minimum Syllabus prescribed for Ranchi University and Colleges under the recommended National Education Policy 2020. It comprehensively covers the theory and practical papers, namely, 'Microbiology, Phycology and Mycology' and 'Diversity & Economic Importance of Microbes' respectively. The theory part of the text introduces the students to acquire conceptual knowledge of diversity, life forms, life cycles, morphology and importance of microorganisms. It also discusses the classification, characteristic features, cell structure and growth and reproduction in viruses, bacteria and their economic importance. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn the experimental procedures.

## Key Features

- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789358700718 | Price: ₹ 499 | Pages: 496 | Size: 6.5" X 9.25" (Paperback)**

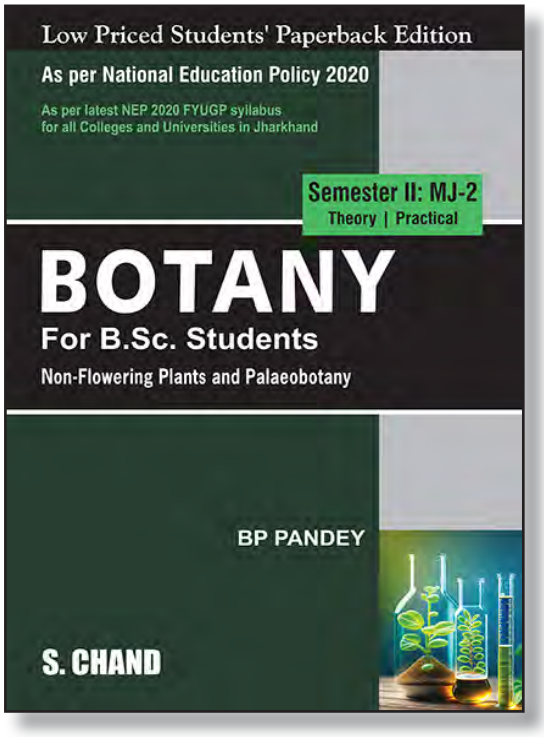
## Contents

Theory: Microbiology, Phycology and Mycology
1: Introduction to Microbial World
2: Viruses
3: Bacteria
4: Algae: An Introduction
5: Xanthophycophyta–Xanthophyceae (Yellow-Green Algae)
6: Chlorophycophyta–Chlorophyceae (Green Algae)
7: Phaeophycophyta–Phaeophyceae (Brown Algae)
8: Rhodophycophyta–Rhodophyceae (Red Algae)
9: Fungi: An Introduction
10: Class: Zygomycetes
11: Class: Oomycetes
12: Class: Ascomycetes
13: Class: Basidiomycetes
14: Class: Deuteromycetes
15: Plant Pathology: Introduction
16: Principles of Plant Disease Control
17: Symptoms of Plant Diseases
18: Disease Cycle and Control Measures of Different Plant Diseases and Management

Practical: Diversity & Economic Importance of Microbes
1: Microbiology
2: Phycology
3: Fungi
4: Phytopathology

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020, for the Universities in Jharkhand)




# Botany for B.Sc. Students Semester II: MJ-2 NEP 2020 for the Universities in Jharkhand

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany for Ranchi University and other Universities in Jharkhand under the recommended National Education Policy 2020. It comprehensively covers the theoretical and practical aspect of the paper Non-Flowering Plants and Palaeobotany. The theory part of the text introduces the students to various fungal groups and lichens, their ecology, classification, characteristics, reproduction and the economic importance. The book teaches the students about the study of morphology, anatomy, reproduction and developmental changes through typological study which will create a knowledge base in understanding plant diversity, economic values, taxonomy of lower group of plants. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn the experimental procedures.

## Key Features

- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorising the practical aspect of the subject

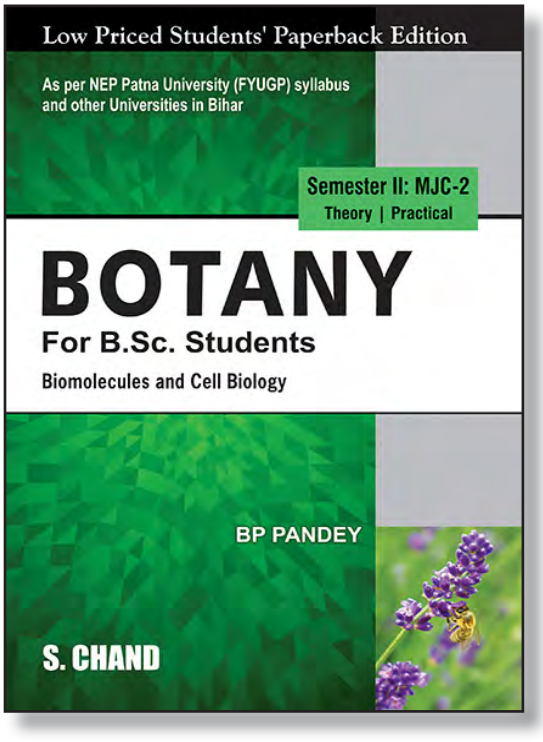
**ISBN: 9789358702828 | Price: ₹ 425 | Pages: 480 | Size: 6.5" X 9.25" (Paperback)**

## Contents

THEORY
1: Symbiotic Associations and Mutualism
2: Lichens
3: Mycorrhiza (Fungal Symbiosis)
4: Bryophytes: An Introduction
5: Riccia
6: Marchantia
7: Anthoceros
8: Sphagnum
9: Funariales
10: Pteridophytes: An Introduction
11: Origin and Evolution of Land Plants
12: Rhynia
13: Selaginella
14: Equisetum
15: Pteris
16: Gymnosperms: An Introduction
17: Cycas
18: Pinus
19: Gnetum
20: Palaeobotany: An Introduction
21: Fossilization and Types of Fossils
22: Geological Time Scale
23: Early Land Plants (Cooksonia and Rhynia)
PRACTICAL
1: Laboratory Methods
2: Symbiotic Associations in Plants
3: Bryophyta
4: Pteridophytes
5: Gymnosperms

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020, for the Universities in Jharkhand)




# Botany for B.Sc. Students Semester II: MJ-2 NEP 2020 for the Universities in Bihar

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany for Patna University and Other Universities in Bihar under the recommended National Education Policy 2020. It comprehensively covers the theoretical and practical aspect of the paper Biomolecules and Cell Biology. The theory part of the text introduces the students to develop an understanding about the structure, properties and functions of biomolecules. Classification, properties and functions of enzymes have been explained in detail. It also discusses the cell wall, cell membrane and the structure and functions of cellular organelles. Students will also be able to learn eukaryotic cell cycle, mitosis and meiosis. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn the experimental procedures.

## Key Features

- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorising the practical aspect of the subject

**ISBN: 9789358703306 | Price: ₹ 299 | Pages: 288 | Size: 6.5" X 9.25" (Paperback)**

## Contents

THEORY

Unit I: Biomolecules

1: Biomolecules: An Introduction
2: Carbohydrates: Structure
3: Metabolism of Carbohydrates
4: Amino Acids: Building Blocks of Proteins
5: Proteins: Structure and Functions
6: Lipids: Structure, Functions and Metabolism
7: Nucleic Acids

Unit II: Enzymes

8: Enzymes: An Introduction
9: Enzymes II: Kinetics
10: Enzyme Regulation

Unit III: Cell

11: Cell: An Introduction
12: Plasma Membrane and Cell Wall
13: Cell Organelles
14: Chromosome Structure

Unit IV: Cell Cycle

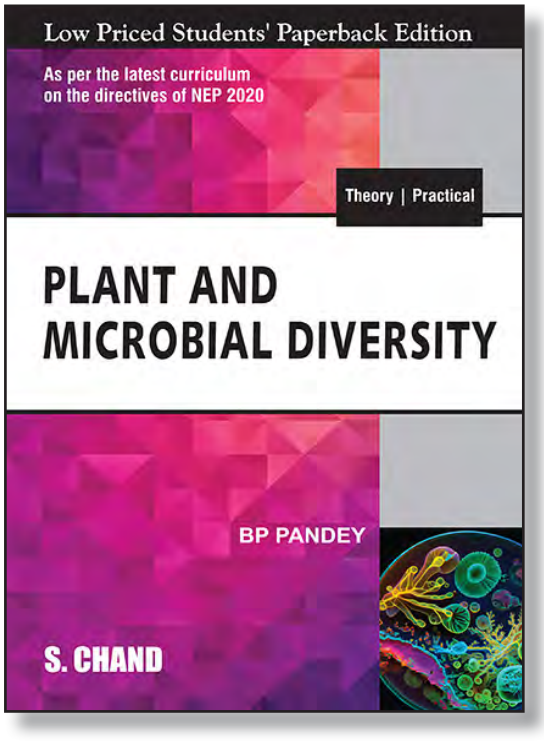
15: Cell Cycle: An Introduction
16: Mitosis
17: Meiosis

PRACTICAL

1: Biochemical Estimation of Proteins and Sugar
2: Detection of Tannin, Alkaloid and Flavonoid in the Given Plant Sample
3: Separation of Amino Acids by Paper Chromatography Technique
4: Study of Cell and its Organelles with the Help of Electron Microphotographs
5: Study of Different Stages of Mitosis and Meiosis

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020, for the Universities in Bihar)




# Plant and Microbial Diversity (LPSPE)

## (As per the latest curriculum on the directives of NEP 2020)

B P Pandey

### About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Botany for the recommended National Education Policy 2020. It comprehensively covers the paper, namely, 'Plant and Microbial Diversity'. The book introduces the students to acquire conceptual knowledge of the diversity of Bacteria, Viruses, Algae, Fungi, Lichens, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms on the planet, and how they may be related to each other. It also discusses the characteristics, distribution, classification and reproduction in various microbial and plant communities. This textbook presents a very lucid and well-illustrated account of Plant and Microbial Diversity from both theoretical and practical perspective.

### Key Features

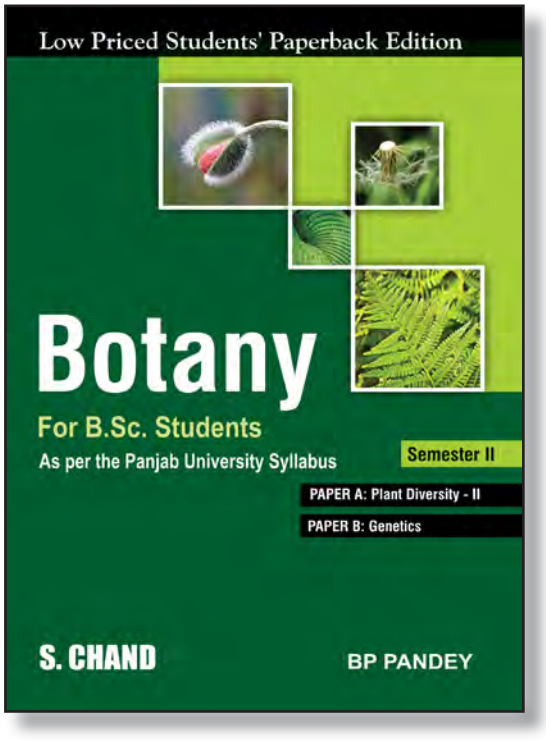
- Well-labelled diagrams relevant to the topics have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Relevant examples have been discussed in great detail at appropriate places

**ISBN: 9789358700138 | Price: ₹ 475 | Pages: 464 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Origin of Life
2. Kingdoms of Life and Tree of Life
3. Classification of Prokaryotes based on Cell Structure
4. Bacterial Reproduction
5. Introduction to Archaebacteria
6. Viruses
7. Case Studies of Viruses
8. Algae: An Introduction
9. Case Studies of Algae
10. Fungi
11. Case Studies of Fungi
12. Lichens
13. Bryophytes
14. Case Studies of Bryophytes
15. Pteridophytes: Introduction
16. Case Studies of Pteridophytes
17. Gymnosperms
18. Case Studies of Gymnosperms
19. Angiosperms
20. Case Studies of Angiosperms

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Botany for B.Sc. Students Semester II For the Panjab University

B P Pandey

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Botany for the Panjab University, Chandigarh. Maintaining the traditional approach to the subject, this textbook not only provides strong conceptual understanding, but also helps in developing scientific outlook of the student. It comprehensively covers two papers, namely, Plant Diversity-II and Genetics. The first part discusses the diversity in various life forms of plant kingdom. It also discusses the reproduction and life cycle of Bryophytes and Pteridophytes. Second part of the book on Genetics, provides an insight about the important role of Genetics on the structural and functional differentiation of plants. Mendel's life, laws of dominance, segregation and independent assortment are discussed in this book. Further, it elucidates linkages, crossing over, sex linked inheritance and mutation.

## Key Features

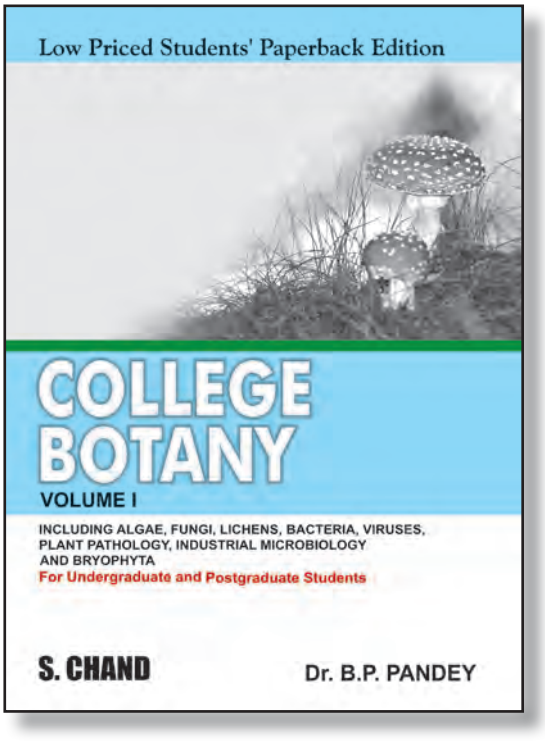
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Summary has been provided at the end of few chapters

**ISBN: 9789355016935 | Price: ₹ 350 | Pages: 396 | Size: 6.5" X 9.25" (Paperback)**

## Contents

PAPER A: PLANT DIVERSITY - II
1: Bryophytes: Introduction
2: Classification of Bryophytes
3: Hepaticopsida (Order-Marchantiales)
4: Anthocerotopsida (Order-Anthocerotales).
5: Bryopsida (Musci) Order-Funariales
6: Bryophytes: General Topics
7: Pteridophytes: Introduction
8: Order-Psilophytales
9: Order-Selaginellales
10: Order-Equisetales
11: Order-Filicales
12: Pteridophytes: General Topics
PAPER B: GENETICS
13: Genetic Basis of Inheritance
14: Chromosomal Basis of Inheritance
15: Allelic and Non-allelic Interactions
16: Genetic Variations: Mutations
17: Extra-Nuclear or Cytoplasmic Inheritance
18: DNA Damage and Repair

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




## College Botany Volume I

B P Pandey

**ISBN: 9789355010926**
**Price: ₹ 650**
**Pages: 936**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

Algae: 1. General Topics, 2. Cyanophycophyta – Myxophyceae Blue Green Algae – Cyanobacteria, 3. Chlorophycophyta – Chlorophyceae Green Algae, 4. Charophyta – Charophyceae Stoneworts, 5. Xanthophycophyta – Xanthophyceae Yellow Green Algae, 6. Bacillariophycophyta – Bacillariophyceae Diatoms, 7. Phaeophycophyta – Phaeophyceae Brown Algae, 8. Rhodophycophyta – Rhodophyceae Red Algae • Question Bank • General References • Glossary • Index,

Fungi: 1. Introduction, 2. Classification of Fungi, 3. Class Myxomycetes, 4. Class Chytridiomycetes, 5. Class Plasmodiophoromycetes, 6. Class Oomycetes, 7. Class Zygomycetes, 8. Class Ascomycetes, 9. Sub – Class Hemiascomycetidae, 10. Sub – Class Euascomycetidae, 11. Class Basidiomycetes, 12. Sub – Class Heterobasidiomycetidae, 13. Sub – Class Homobasidiomycetidae, 14. Class Deuteromycetes, 15. Economic Importance of Fungi, 16. Heterothallism, Parasexuality and Sex Hormones in Fungi,

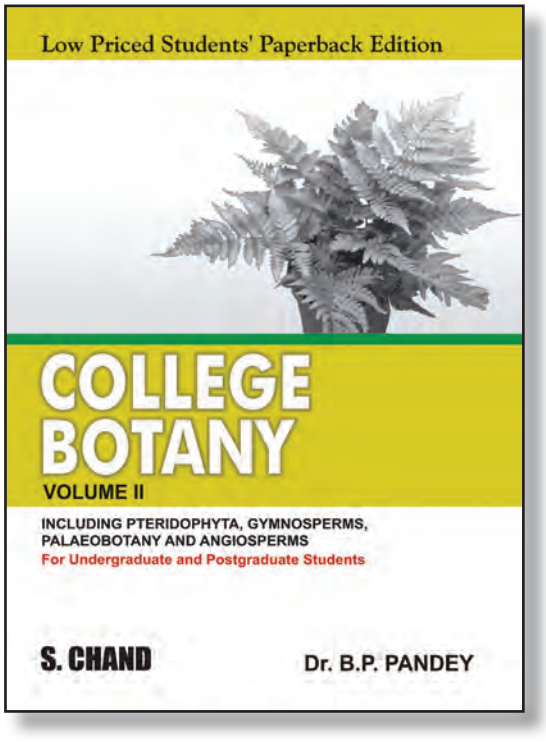
Lichens: 17. Form Class – Lichens,

Plant Pathology: 18. Plant Diseases and Their Classification, 19. Bacterial, Viral and Fungal Diseases of Plants, 20. Principles of Plant Disease Control, 21. Methods of Studying Plant Diseases,

Microbiology: 22. Bacteria, Mycoplasma, Actinomycetes and Cyanobacteria, 23. Viruses, 24. Human Diseases by Bacterial, Viral and Fungal Pathogens, 25. Industrial uses of Micro-Organisms • Question Bank • References • Glossary • Index,

Bryophyta: 1. Introduction, 2. Classification of Bryophytes, 3. Order Marchantiales, 4. Order Metzgeriales, 5. Order Jungermanniales, 6. Order Calobryales, 7. Order Takakiales, 8. Order Anthocerotales, 9. Order Sphagnales, 10. Order Funariales, 11. Order Polytrichales, 12. General Discussion • Question Bank • Further Reading • Glossary • Index

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# College Botany Volume II

B P Pandey

## About the Book

This book is contain Pteridophyta,Gymnosperms and Palaeobotany compilation work and embodies a fairly comprehensive treatment of the fundamental facts and aspects of the subject. This book will serve as an introduction to Botany to the beginners in this field.

**ISBN: 9789355010612**
**Price: ₹ 595**
**Pages: 888**
**Size: 6.75" X 9.5" (Paperback)**

## Contents

Pteridophyta: 1. Introduction, 2. Order Psilophytales, 3. Order Psilotales, 4. Order Lycopodiales, 5. Order Selaginellales, 6. Order Equisetales, 7. Order Ophioglossales, 8. Order Marsileales, 9. Order Filicales, 10. General Topics • Selected Readings • Glossary • Question Bank • Index,

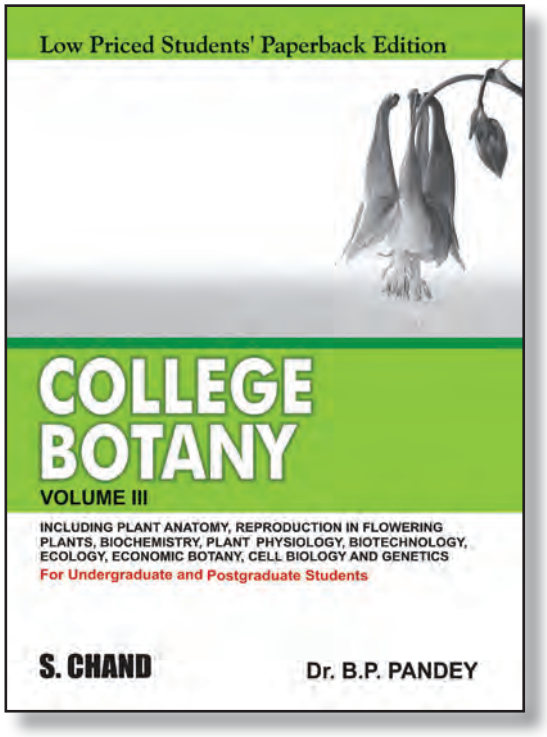
Gymnosperms: 1. Introduction, 2. Order Cycadales, 3. Order Ginkgoales, 4. Order Coniferales, 5. Order Taxales, 6. Order Gnetales,

Palaeobotany: 7. Methods of Fossil Study, 8. Order Psilophytales, 9. Order Pteridospermales (Cycadofilicales), 10. Order Cycadeoideales (Bennettitales), 11. Order Cordaitales, Glossary • Question Bank • Index,

Angiosperms: 1. Angiosperms: Introduction, 2. Evolution of Classification, 3. Modern Trends in Taxonomy, 4. Nomenclature of Plants, 5. Plant Collection and Preparation of Herbarium, 6. How to Describe an Angiospermic Plant, 7. Angiosperms: Glossary with Illustrations, 8. Glossary of Botanical Terms, 9. The Dicotyledones-Order-Rosales-Family-Rosaceae, 10. Order–Leguminales, Family-Fabaceae, 11. Order-Malvales Family-Malvaceae, 12. Order-Euphorbiales Family-Euphorbiaceae, 13. Order-Rutales Family-Rutaceae, 14. Order–Apocynales Family –Apocynaceae & Family–Asclepiadaceae, 15. Order–Rubiales Family–Rubiaceae, 16. Order–Ranales Family–Ranunculaceae, 17. Order–Brassicales (Cruciales), Family– Brassicaceae (Cruciferae), 18. Order–Caryophyllales Family–Caryophyllaceae, 19. Order– Chenopodiales Family–Chenopodiaceae & Family–Amaranthaceae, 20. Order–Umbellales Family–Apiaceae (Umbelliferae), 21. Order–Solanales Family–Solanaceae, 22. Order–Personales Family–Acanthaceae, 23. Order–Lamiales Family–Lamiaceae (Labiatae), 24. The Monocotyledones Order–Liliales Family–Liliaceae and Allies, 25. Order–Graminales Family–Poaceae (Gramineae) • Question Bank, 26. Basic Body Plan of Flowering Plant, 27. Convergence of Evolution of Tree Habit, 28. Trees: Largest and Longest Lived Organisms, 29. Diversity and Morphology of Flowering Plants • Question Bank, 30. Reproduction in Flowering Plants • Question Bank

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

LOW PRICED STUDENTS' PAPERBACK EDITION




# College Botany Volume III

B P Pandey

## About the Book

This Voume includes Plant Anataomy, Reproduction in Flowering Plants, BioChemistry, Plant Physiology, Biotechnology, Ecology, Economic Botany, Cell Biology, and Genetics, For Degree m Honours and Post Graduate Students.

**ISBN: 9789355010629**
**Price: ₹ 795**
**Pages: 1392**
**Size: 6.75" X 9.5" (Paperback)**

## Contents

Unit-1: Plant Anatomy: 1. Basic Body Plan of Flowering Plant, 2. The Tissue, 3. Apical Meristems, 4. The Tissue System, 5. Nodal Anatomy, 6. The Cambium, 7. The Shoot System: Primary and Secondary Structure, 8. Leaf: Origin, Development and Anatomy, 9. The Root System: Primary and Secondary Structure, 10. Anatomy of the Embryo and Young Seedling, 11. Anatomy of the Floral Parts, 12. Special Flowering Plants,

Unit-2: Reproduction in Flowering Plants: 13. Reproduction in Flowering Plants,

Unit-3: Biochemistry: 14. Basics of Enzymology,

Unit-4: Plant Physiology:15. Plant Water Relations, 16. Mineral Nutrition and Nitrogen Metabolism, 17. Respiration, 18. Photosynthesis, 19. Plant Growth and Development, 20. Lipid (Fat) Metabolism,

Unit-5: Biotechnology: 21. Genetic Engineering, Cloning and Genomics, 22. Plant Tissue Culture and Biotechnology,

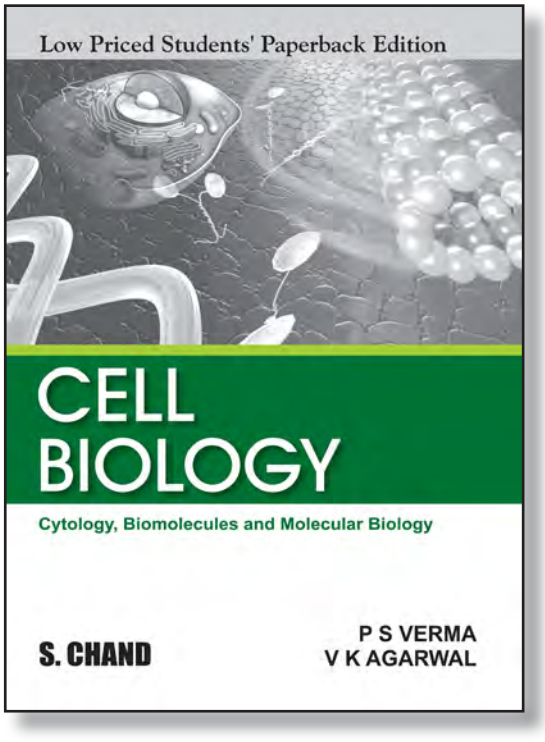
Unit-6: Ecology: 23. Organisms and the Environment, 24. Population, Biotic Community and Succession, 25. Ecosystem: Structure and Function, 26. Natural Resource and Vegetation Types of India, 27. Biodiversity and Biogeographical Regions of India, 28. Environment Changes,

Unit-7: Utilization of Plants (Economic Botany): 29. Introduction, 30. Food Plants, 31. Fibres and Fibre Yielding Plants, 32. Vegetable and Fatty Oils, 33. Wood and Cork, 34. Bamboos in India, 35. Spices and Condiments, 36. The Medicinal Plants: Pharmacognosy, 37. Non – Alcoholic Beverages and Beverage Plants, 38. Rubber and its Products • Question Bank,

Unit-8: Cell Biology: 39. The Cell: Structure and Its Components, 40. The Cell Wall, 41. The Division,

Unit-9: Genetics – Continuity of Life: 42. Genetics Basis of Inheritance, 43. Chromosomal Basis of Inheritance, 44. Nature of Gene: Its Expression and Regulation, 45. Allelic and Non-allelic Interactions, 46. Genetic Variations: Mutations, 47. Transposable Genetic Elements, 48. Plasmids, 49. Chromosomal Aberrations: Structural Changes, 50. Variation in Chromosome Number, 51. Chromosome Organization, 52. Sex Chromosomes, 53. Extra – Nuclear or Cytoplasmic Inheritance, 54. Protein Structure, 55. DNA Damage and Repair • Question Bank

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Cell Biology (LPSPE)

P S Verma & V K Agarwal

## About the Book

This book explains the essential principles, processes and methodology of cell biology, biochemistry and molecular biology. It reflects upon the significant advances in cell biology such as motor proteins, intracellular traffic and targeting of proteins, signalling pathways, receptors, apoptosis, aging and cancer. It also discusses certain current topics such as history of life (origin of life), archaebacteria, split genes, exon shuffling, gene silencing, RNA interference, miRNA, siRNA and recombinant DNA technology, etc.

## Key Features

- Explains the essential principles, processes and methodology of cell biology, biochemistry and molecular biology.
- Reflects upon the significant advances in cell biology such as motor proteins, intracellular traffic & targeting of proteins, signalling pathways, receptors, apoptosis, aging and cancer.
- Pedagogically enriched, the book provides engaging chapter-end assessment exercises to enhance and strengthen the learning of the readers.
- Glossary, serving as a mini dictionary, provides various key terms of cell biology. Also provide selected readings for further exploration of the subject.
- Boxed items provide extra information on the topics.

**ISBN: 9789355011022 | Price: ₹ 795 | Pages: 1,208 | Size: 6.75" X 9.5" (Paperback)**

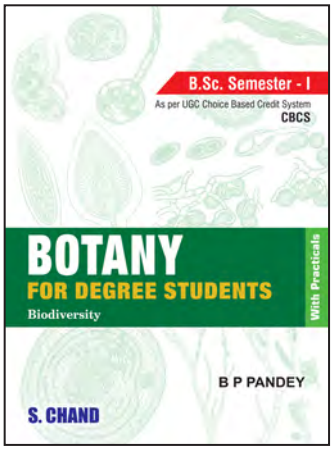
## Contents

1. Introduction
2. Microscopy
3. Tools and Techniques in Cell Biology
4. The Origin of Life
5. Prokaryotic Cell and Eukaryotic Cell
6. Cytosol: Elements, Biomolecules and Properties
7. Amino Acids, Peptides and Proteins
8. Carbohydrates
9. Lipids
10. Nucleotides and Nucleic Acids
11. Tubules and Filaments (Cytoskeleton)
12. Plasma Membrane
13. The Cell Wall
14. Cell Junctions, Cell Adhesion and the Extra-Cellular Matrix (ECM)
15. Bioenergetics and Enzymes
16. Mitochondria (Energy Metabolism)
17. Chloroplasts (Photosynthesis)
18. Biosynthesis of Lipids and Polysaccharides
19. Endoplasmic Reticulum (ER)
20. Ribosomes
21. Golgi Apparatus
22. Intracellular Protein Sorting or Targeting and Chaperones
23. Vesicular Traffic in the Secretory and Endocytic Pathway
24. Lysosomes
25. Peroxisomes
26. Cell Signaling (Messages, Receptors and Signal Transduction)
27. Electrical Signals in Nerve Cells
28. Centrioles and Basal Bodies
29. Cellular Movement: Muscle Contractility and Amoeboid Movement
30. Microtubule-Based Cell Movement: Cilia and Flagella
31. Nucleus, Nucleopore and Nucleolus
32. Chromosomes
33. Chromosomal Variations: 1. Morphological 2. Numerical
34. DNA: Molecular Structure
35. DNA: Replication, Repair and Recombination
36. Genes
37. Point Mutation
38. Genetic Code
39. Transcription and mRNAs, rRNAs and tRNAs
40. Protein Synthesis
41. Regulation of Gene Action
42. Cell Commitment, 43. Induction
44. Cell Differentiation
45. Stem Cell Concept and Cell Replacement Therapy
46. Cell Growth, Cell Cycle and Mitosis
47. Meiosis and Reproductive Cycle
48. Reproduction
49. Gametogenesis
50. Fertilization
51. Parthenogenesis
52. Aging: The Biology of Senescence
53. Apoptosis (Programmed Cell Death)
54. Cell Culture and Cryopreservation
55. Cell Transformation and Cancer (Biology of Cancer)
56. Effect of Radiation on the Cell
57. Viruses
58. Archaea (Archaebacteria)
59. Bacteria
60. Recombinant DNA Technology

*• Glossary • Selected Readings • Literary Sources in Cell Biology • Index*

**P S Verma & V K Agarwal,** Formerly Readers, Department of Zoology, Meerut College, Meerut.

LOW PRICED STUDENTS' PAPERBACK EDITION




## Botany for Degree Students, B.Sc. Semester - I

As Per CBCS

B P Pandey

### About the Book

This textbook has been designed to meet the needs of BSc First Semester students of Botany as per the UGC Choice Based Credit System (CBCS). It acquaints students with general characteristics, classification and economic importance of various divisions of biodiversity i.e., Microbes, Algae, Fungi and Archegoniate. While it provides strong conceptual understanding of the subject, it also helps in developing scientific outlook of the student.

### Key Features

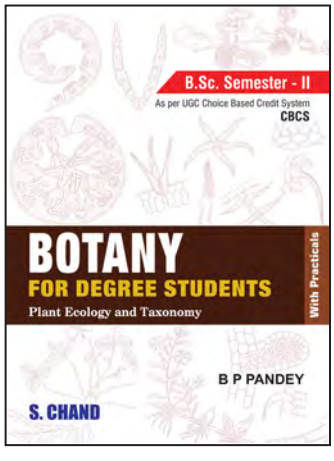
- Enriched with more than 650 well-labelled diagrams for easy understanding of the concepts
- Engaging part-end exercises, having close to 600 questions, for effective practice
- Collection of experiments at the end of the book to stimulate interest, aid in learning and memorize the practical aspect of the subject

**ISBN: 9789352535279 | Price: ₹ 595 | Pages: 672 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Unit-I: Microbes: 1. Viruses, 2. Bacteria, Unit-II: Algae: 3. Algae: An Introduction, 4. Chlorophycophyta–Chlorophyceae (Green Algae), 5. Xanthophycophyta–Xanthophyceae (Yellow-Green Algae), 6. Phaeophycophyta–Phaeophyceae (Brown Algae), 7. Rhodophycophyta–Rhodophyceae (Red Algae), Unit-III: Fungi: 8. Fungi: An Introduction, 9. Sub-Division: Zygomycotina Class: Zygomycetes, 10. Sub-Division: Ascomycotina Class: Ascomycetes, 11. Sub-Class: Euascomycetidae, 12. Sub-Division: Basidiomycotina Class: Basidiomycetes, 13. Sub-Class: Homobasidiomycetidae, 14. Sub-Division: Deuteromycotina Class: Deuteromycetes, 15. Lichens, Unit-IV: Archegoniate: 16. Bryophytes: An Introduction, 17. Hepaticopsida Order-Marchantiales, 18. Bryopsida (Musci Order-Funariales), 19. Pteridophytes: An Introduction, 20. Order-Psilophytales, 21. Order-Selaginellales, 22. Order-Equisetales, 23. Order-Filicales, 24. Gymnosperms: An Introduction, 25. Class-Cycadopsida, Order-Cycadales, Genus-Cycas, 26. Class-Coniferopsida, Order-Coniferales, Genus-Pinus, Practicals: 1. Laboratory Methods, 2. Viruses, 3. Bacteria, 4. Algae, 5. Cyanophycophyta – Myxophyceae, 6. Chlorophyceae, 7. Phaeophyceae, 8. Rhodophyceae, 9. Zygomycotina Zygomycetes, 10. Ascomycotina Ascomycetes, 11. Basidiomycotina Basidiomycetes, 12. Deuteromycotina Deuteromycetes, 13. Lichens, 14. Bryophyta, 15. Hepaticopsida, 16. Bryopsida, 17. Pteridophytes, 18. Arthrophyta, 19. Filicophyta, 20. Gymnosperms

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




## Botany for Degree Students, B.Sc. Semester - II

As Per CBCS

B P Pandey

### About the Book

This textbook has been designed to meet the needs of BSc Second Semester students of Botany as per the UGC Choice Based Credit System (CBCS). It acquaints students with abiotic and biotic components of the ecosystem and their interactions at different levels. It also covers origin of angiosperms, their phylogeny and classification using various methods. While it provides strong conceptual understanding of the subject, it also helps in developing scientific outlook of the student.

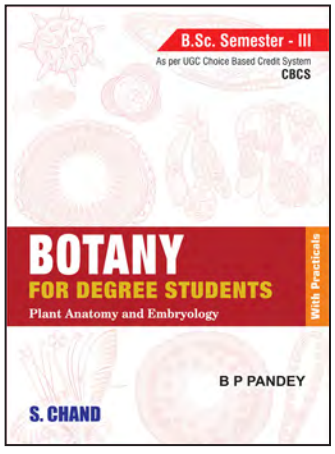
### Key Features

- Enriched with more than 200 well-labelled diagrams for easy understanding of the concepts
- Engaging unit-end exercises, having more than 150 questions, for practice
- Collection of experiments at the end of the book to stimulate interest, aid in learning and memorize the practical aspect of the subject

**ISBN: 9789352535286 | Price: ₹ 395 | Pages: 368 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Unit-I: Plant Ecology: 1. Introduction to Plant Ecology, 2. Ecological Factors, 3. Ecological Adaptations, 4. Biotic Community and Succession, 5. Ecosystem: Structure and Function, 6. Biosphere, 7. Energy Flow in Ecosystem, 8. Food Chain, Food Web and Ecological Pyramids, 9. Nutrient Cycling-Biogeochemical Cycles, 10. Major Biomes of the World, 11. Land Resources and Forests of India, Unit-II: Plant Taxonomy: 12. Introduction to Plant Taxonomy, 13. Identification: Plant Collection and Preparation of Herbarium, 14. Taxonomic Evidences, 15. Taxonomic Hierarchy, 16. Botanical Nomenclature, 17. Classification, 18. Biometrics, Numerical Taxonomy and Cladistics, Practicals: 1. Laboratory Methods, 2. Plant Ecology Exercises, 3. Ecological Anatomy, 4. Epiphytes, Parasites and Insectivorous Plants, 5. Soil Science, 6. Preparing and Caring for a Herbarium Collection, 7. System of Classification of Angiosperms, 8. How to Describe an Angiospermic Plant, 9. Glossary with Illustrations Structure of Angiosperms, 10. Description of Angiospermic Plants in Semitechnical Language




## Botany for Degree Students, B.Sc. Semester - III

As Per CBCS

B P Pandey

### About the Book

This textbook has been designed to meet the needs of B.Sc. Third Semester students of Botany as per the UGC Choice Based Credit System (CBCS). It acquaints students with the tissue system, anatomy of stems, roots & leaves and secondary growth. It explains adaptive & protective systems and structural organization of a flower. Besides, the book also covers pollination, fertilization, development of endosperm and embryo, apomixis and polyembryony. While it provides strong conceptual understanding of the subject, it also helps in developing scientific outlook of the student.

### Key Features

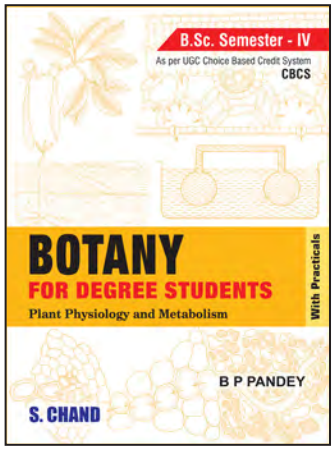
- Enriched with close to 300 well-labelled diagrams for easy understanding of the concepts
- Engaging unit-end exercises, having nearly 100 questions, for practice
- Collection of experiments at the end of the book to stimulate interest, aid in learning and memorize the practical aspect of the subject

**ISBN: 9789352535293 | Price: ₹ 450 | Pages: 416 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Unit-I: Meristematic and Permanent Tissues: 1. Introduction, 2. Shoot and Root Apical Meristems, 3. Simple and Complex Tissues, Unit-II: Organs: 4. Anatomy of Dicotyledonous and Monocotyledonous Stems, 5. Anatomy of Dicotyledonous and Monocotyledonous Leaves, 6. Root System: Primary and Secondary Structures, Unit-III: Secondary Growth: 7. Cambium, 8. Secondary Growth in Dicotyledonous Stems, 9. Secondary Growth in Dicotyledonous Roots, Unit-IV: Adaptive and Protective Systems: 10. Tissue System, Unit-V: Structural Organization of Flower: 11. Flower: Structure and Function, Unit-VI: Pollination and Fertilization: 12. Pollination, Mechanisms and Adaptations, and Fertilization, Unit-VII: Embryo and Endosperm: 13. Embryo and its Development (Embryogenesis), 14. Endosperm, Unit-VIII: Apomixis and Polyembryony: 15. Apomixis, 16. Polyembryony, Practicals: 1. Laboratory Methods, 2. Meristems, 3. Tissues, 4. Stem, 5. Root, 6. Leaf and Phyllode, 7. Adaptive Anatomy, 8. Structure of Anther and Tapetum, 9. Ovule: Development and Types, 10. Female Gametophyte, 11. Types of Pollination and Dispersal of Fruits and Seeds, 12. Endosperm/ Embryo, 13. Pollen Grainss

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




## Botany for Degree Students, B.Sc. Semester - IV

As Per CBCS

B P Pandey

### About the Book

This textbook has been designed to meet the needs of BSc Fourth Semester students of Botany as per the UGC Choice Based Credit System (CBCS). It acquaints the students with plant-water relations and throws light on mineral nutrition. It also covers translocation in phloem, photosynthesis, respiration and enzymes. In addition to these, the book also deals with the nitrogen and lipid metabolism, plant growth regulators and plant response to light and temperature. While it provides strong conceptual understanding of the subject, it also helps in developing scientific outlook of the student.

### Key Features

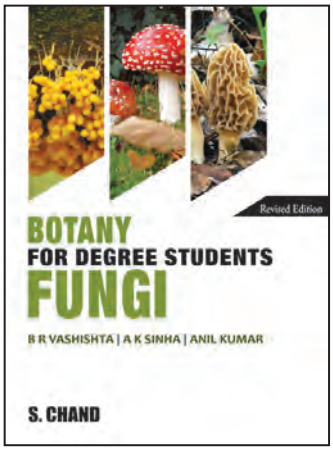
- Enriched with more than 150 well-labelled diagrams for easy understanding of the concepts
- Engaging chapter-end exercises, having more than 675 questions, for practice
- Collection of experiments at the end of the book to stimulate interest, aid in learning and memorize the practical aspect of the subject
- Glossary of important terms at the end of the book

**ISBN: 9789352535309 | Code: 9789352535309 | Price: ₹ 375 | Pages: 296 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Plants Physiology and Metabolism: 1. Plant–Water Relations, 2. Mineral Nutrition, 3. Translocation in Phloem, 4. Photosynthesis, 5. Respiration, 6. Enzymes, 7. Nitrogen Metabolism, 8. Lipid (Fat) Metabolism, 9. Plant Growth Regulators, 10. Plant Response to Light and Temperature, Practical: 1. Plant Physiology: Laboratory Exercises, 2. Methods of Biochemical Analysis, 3. Biochemistry: Laboratory Exercises

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




## Botany for Degree Students: FUNGI

B R Vashishta, A K Sinha & Anil Kumar

Multicolour Edition

### About the Book

This comprehensive and well known textbook deals with the characteristics, classification and life cycle of different species of fungi. While it provides a detailed account of bacteria, viruses, mycoplasma and lichens, it also discusses elementary plant pathology.

### Key Features

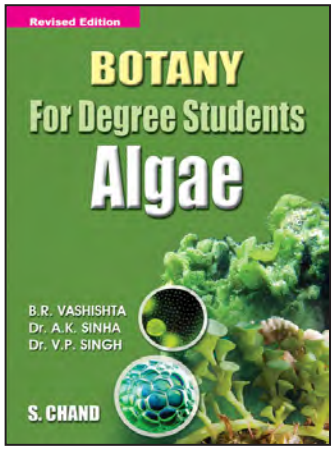
- Throws light on Whittaker's five kingdom system and beyond, economic importance of fungi and recent developments in fungal taxonomy (AFTOL )
- Includes a chapter on plant parasitic nematodes discussing briefly their life cycle, common symptoms and control measures
- Pedagogically enriched with close to 1000 coloured diagrams and images as well as chapter-end exercises

**ISBN: 9789352533008 | Code: 9789352533008 | Price: ₹ 750 | Pages: 812 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Section-I: Division Mycota: 1. The Fungi: General Characters and Classification, 2. Subdivision: Myxomycotina, Class: Myxomycetes, 3. Subdivision: Eumycotina, The Lower Fungi (Phycomycetes), 4. Subdivision: Eumycotina, Class: Chytridiomycetes, 5. Subdivision: Eumycotina, Class: Plasmodiophoromycetes, 6. Subdivision: Eumycotina, Class: Oomycetes, 7. Subdivision: Eumycotina , Class: Zygomycetes, 8. Subdivision: Eumycotina, The Higher Fungi, 9. Subclass: Hemiascomycetidae (Yeasts), 10. Subclass: Euascomycetidae, Series —Plectomycetes, 11. Subclass: Euascomycetidae, Series — Hymenoascomycetes, 12. Subclass: Euascomycetidae, Sub-Series: Discomycetes, 13. The Higher Fungi, Class: Basidiomycetes, 14. Subclass: Heterobasidiomycetidae, 15. Subclass: Homobasidiomycetidae, 16. Class: Deuteromycetes (Fungi Imperfecti), 17. Fungi: General Topics and Discussion, Section-II: Schizomycota, Viruses and Mycoplasma: 18. Schizomycota: Bacteria, 19. Viruses, Viroids and Mycoplasma, Section-III: Lichens: 20. Lichens, 21. Principles of Plant Pathology, 22. Examples of Important Plant Diseases, 23. Plant Parasitic Nematodes • *Selected Bibliography* • *Index*

**B R Vashishta,** Formerly Reader, Department of Botany, Punjab University.
**A K Sinha,** Formerly Reader and Head of Department - Botany, Feroze Gandhi Postgraduate College (Kanpur University), Raebareli, Uttar Pradesh.
**Anil Kumar,** Associate Professor, Department of Botany, Feroze Gandhi Postgraduate College (Kanpur University), Raebareli, Uttar Pradesh.




## Botany for Degree Students: ALGAE

B R Vashishta, A K Sinha & V P Singh

Multicolour Edition

### About the Book

The revised edition of *Botany for Degree Students- Algae* deals with the important system of classification of the plant kingdom, an account of thallophytes, life histories of important representatives of each class of algae and various aspects of the life cycles of algae. Coverage of latest researches in the current edition of the book make it more useful for students appearing in competitive examinations.

### Key Features

- Discussion on new topics such as Protochlorophyta, Toxic Algae, colourless Algae, Biofertilisers, Cyanophages, Bioluminisense and genera Microcystis and Navicula in the
- Relevant and well labelled diagrams to illustrate various stages in the life histories of the representative types
- Rich pedagogy comprising chapter-end features such as list of diagnostic features of important types and graphic representation of their life histories and variety of revision questions (Essay, short and objective type questions)

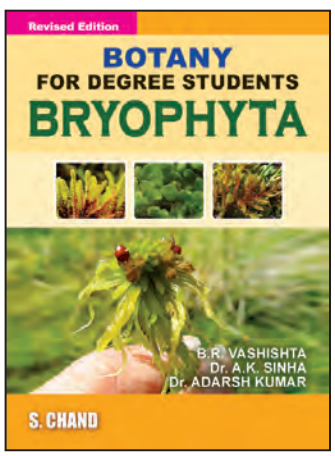
**ISBN: 9788121935210 | Code: 1003A00389 | Price: ₹ 650 | Pages: 624 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Division: Cyanophyta (Cyanophycophyta Class: Cynophyceae), 3. Division: Chlorophyta (Chlorophycophyta Class: Chlorophyceae), 4. Class: Chlorophyceae Order: Volvocales, 5. Class: Chlorophyceae Order: Chlorococcales, 6. Order: Ulotrichales Suborder: Ulotrichineae, 7. Order: Ulvales, 8. Order: Oedogoniales, 9. Order: Cladophorales, 10. Order: Chaetophorales, 11. Order: Zygnemales (Conjugales), 12. Order: Caulerpales, 13. Division: Charophyta (Charophycophyta Class: Charophyceae), 14. Division: Xanthophyta (Xanthophycophyta Class: Xanthophyceae), 15. Division: Bacillariophyta (Bacillariophycophyta Class Bacillariophyceae (Diatoms), 16. Division: Phaeophyta (Phaeophycophyta), 17. Class: Isogeneratae Order: Ectocarpales,

18. Order: Dictyotales, 19. Order: Laminariales, 20. Class: Cyclospora Order: Fucales, 21. Division: Rhodophyta (Rhodophycophyta), 22. Sub-Class: Florideae (Florideophycideae Order: Nemalionales), 23. Order: Ceramiales, 24. General Conclusions • *Bibliography* • *Index*

**B R Vashishta,** Formerly Reader, Department of Botany, Punjab University.
**A K Sinha,** Formerly Reader and Head of Department - Botany, Feroze Gandhi Postgraduate College (Kanpur University), Raebareli, Uttar Pradesh.
**VP Singh,** Radar in Botany, Feroze Gandhi Postgraduate College, (Kanpur University), Rae Bareli, Uttar Pradesh.




## Botany for Degree Students: BRYOPHYTA

B R Vashishta, A K Sinha & Adarsh Kumar

Multicolour Edition

### About the Book

It is a part of five book series on *Botany for Degree Students*. The revised edition of Botany for Degree Students-Bryophyta deals with a small group of primitive, thalloid plants which are amphibious in habit. The text presents latest and significant results of botanical researches in an organised, lucid and cogent manner. This book is suitable for both undergraduate and postgraduate courses.

### Key Features

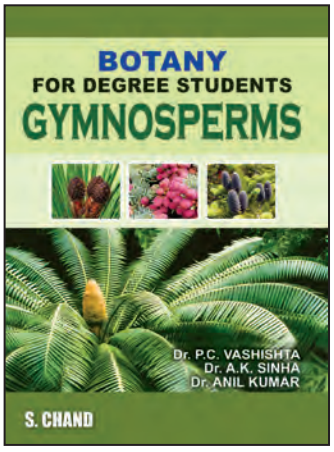
- Diagrammatic representation of the life cycle of each type giving a clear picture of the pattern of Alternation of Generations
- Discussion of salient features of the division and its classes down to the orders and the type plants and their life histories at the end of respective chapters
- Engaging chapter-end exercises to test and strengthen understanding

**ISBN: 9788121935692 | Code: 1003A00393 | Price: ₹ 645 | Pages: 528 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Hepaticopsida (Hepaticae) Liverworts, 3. Hepaticopsida (Hepaticae) Marchantiales, 4. Marchantiales – Ricciaceae: *Riccia*, 5(i). Marchantiales – Marchantiaceae: *Marchantia*, 5(ii). Marchantiales – Targioniaceae: *Targionia and Cyathodium*, 5(iii). Marchantiales – Rebouliaceae: *Plagiochasma*, 5(iv). Marchantiles – Lunulariaceae: *Lunularia*, 5(v). Marchantiales – Conocephalaceae: *Conocephalum*, 6(i). Hepaticopsida – Sphaerocarpales: *Sphaerocarpos, Riella*, 6(ii). Hepaticopsida (Hepaticae) Metzgeriales, 7(i). Metzgeriales – Pelliaceae: *Pellia*, 7(ii). Metzgeriales – Riccardiaceae (Aneuraceae): *Riccardia*, 8. Metzgeriales – Fossombroniaceae: *Fossombronia*, 9. Hepaticopsida (Hepaticae): Jungermanniales, 10. Jungermanniales: Porellaceae (Madothecaceae): *Porella*, 11. Jungermanniales – Frullaniaceae: *Frullania*, 12. Calobryales – Calobryaceae: Calobryum (*Haplomitrium*), 13(i). Anthocerotopsida (Anthocerotae) – Anthocerotales (Anthoceros), 13(ii). Anthocerotales – Notothylaceae (Notothylas), 14. Bryopsida (Musci or Mosses), 15. Takakiidae – Takakiales: *Takakia*, 16. Sphagnidae – Sphagnales: *Sphagnum*, 17. Andreaeidae – Andreaeales: *Andreaea*, 18. Bryidae – Funariales: *Funaria*, 19. Bryidae – Buxbaumiales: *Buxbaumia*, 20. Bryidae – Polytrichales: *Polytrichum, Pogonatum*, 21. General Conclusions • *Selected Bibliography* • *Index*

**B R Vashishta,** Formerly Reader, Department of Botany, Punjab University.
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**Adarsh Kumar,** Radar in Botany, Feroze Gandhi Postgraduate College, (Kanpur University), Rae Bareli, Uttar Pradesh.




## Botany for Degree Students: GYMNOSPERMS

P C Vashishta, A K Sinha & Anil Kumar

Multicolour Edition

### About the Book

It is a part of five book series on Botany for Degree Students. The revised edition of *Botany for Degree Students-Gymnosperms* deals with the morphology and reproduction of both living and fossil gymnosperms. The text presents latest and significant results of botanical researches in an organised, lucid and cogent manner. This book is suitable for both undergraduate and postgraduate courses.

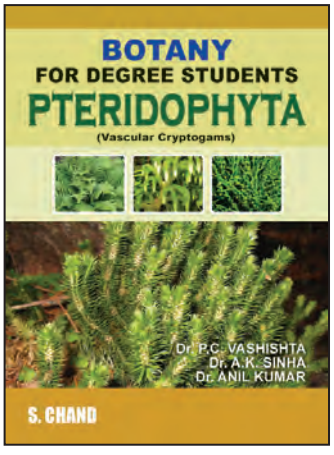
### Key Features

- Inclusion of a chapter, General Topics (Chapter 18) dealing with contemporary topics such as Experimental Embryology, Biotechnology and many more
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**ISBN: 9788121926188 | Code: 1003A00338 | Price: ₹ 675 | Pages: 592 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Introduction, 2. Cycadopsida—Pteridospermales, 3. Pteridospermales Family Glossopteridaceae, 4. Peltaspermaceae and Corystospermaceae, 5. Caytoniaceae, 6. Bennettitales, 7. Pentoxylales, 8. Cycadales, 9. Cycadopsida—(Contd.), 10. Coniferopsida—Cordaitales, 11. Coniferopsida—Ginkgoales, 12. Coniferopsida—Coniferales, 13. Coniferales—Life History of Pinus, 14. Coniferopsida—Taxales, 15. Family—Ephedraceae, 16. Gnetaceae, 17. Welwitschiaceae, 18. General Topics • *Bibliography* • *Index*




## Botany for Degree Students: PTERIDOPHYTA (Vascular Cryptogams)

P C Vashishta, A K Sinha & Anil Kumar

Multicolour Edition

### About the Book

It is a part of five book series on Botany for Degree Students. The revised edition of *Botany for Degree Students-Pteridophyta* provides detailed account of the structure and reproduction of the representative types of vascular cryptograms in a simple and lucid style. It is useful for both undergraduate as well as post-graduate courses as it provides information from various recent researches and works in the field.

### Key Features

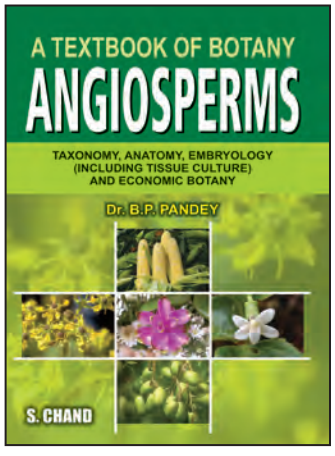
- New chapter discussing topics such as Fossil Lycopods, Fossil Sphenophytes, Biotechnology and tissue culture studies in pteridophytes
- Diagrams to facilitate understanding of the various aspects of vascular plants
- Wide range of engaging chapter-end exercises as per the new format of examination papers of various universities

**ISBN: 9788121927857 | Code: 1003B00353 | Price: ₹ 695 | Pages: 640 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. The Vascular Cryptogams (Pteridophyta), 2. Division–Psilophyta Class–Psilophytopsida, 3. Division–Psilophyta Class–Psilotopsida, 4. Lycophyta–Eligulopsida, 5. Lycophyta–Ligulopsida, 6. Lycophyta–Ligulopsida (Contd.), 7. Sphenophyta (Benson, 1957), 8. Filicophyta or Pterophyta, 9. Eusporangiopsida Ophioglossales, 10. Eusporangiopsida (Contd.) – Marattiales, 11. Protoleptosporangiopsida, 12. Leptosporangiopsida, 13. Family Gleicheniaceae Genus *Gleichenia*, 14. Family Polypodiaceae Subfamily Drypteridioideae, 15. Family Polypodiaceae Subfamily Pteridoideae, 16. Family Polypodiaceae Subfamily Polypodioideae, 17. Hymenophyllaceae, 18. Pterophyta—Leptosporangiopsida— Marsileales, 19. Pterophyta– Leptosporangiopsida–Salviniales, 20. General Discussion • *Bibliography* • *Reference Books* • *Index*

**PC Vashishta,** Ex. Principal Govt. College, Sector-II, Chandigarh.
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**Anil Kumar,** Associate Professor, Department of Botany, Feroze Gandhi Postgraduate College (Kanpur University), Raebareli, Uttar Pradesh.




# A Textbook of Botany: ANGIOSPERMS

B P Pandey

## About the Book

This textbook presents a comprehensive treatment of Angiosperms by discussing its vital components, Taxonomy, Anatomy, Embryology including Tissue Culture and Economic Botany. Written in a simple and lucid style, it has abundance of relevant illustrations with self-explanatory diagrams. Information on new angiospermic families enhances the utility of the book. It caters primarily to the requirements of undergraduate students of Botany and would also be a useful source of reference for postgraduate students & candidates appearing for several competitive examinations.

## Key Features

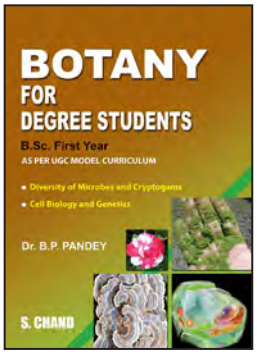
- Addition of two chapters in revised edition, namely, Pharmacognosy and Morphogenesis- Plant Tissue and Organ Culture
- Robust book-end question bank comprising nearly 600 questions- long answer, short answer, simple & multiple choice questions and Civil Services Examination questions

**ISBN: 9788121904049 | Code: 1003B00118 | Price: ₹ 850 | Pages: 1,008 | Size: 6.75" X 9.5" (Paperback)**

## Contents

Part-I. Taxonomy of Angiosperms: 1. Introduction, *THE DICOTYLEDONES*: 2. Order-Magnoliales, 3. Order-Rosales, 4. Order-Leguminales, 5. Order-Capparidales, 6. Order-Violales, 7. Order-Cucurbitales, 8. Order-Tiliales, 9. Order-Malvales, 10. Order-Euphorbiales, 11. Order-Ochnales, 12. Order-Myrtales, 13. Order-Rutales, 14. Order-Meliales, 15. Order-Sapindales, 16. Order-Apocynales, 17. Order-Rubiales, 18. Order-Bignoniales, 19. Order-Verbenales, 20. Order-Ranales, 21. Order-Rhoeadales, 22. Order-Brassicales (Cruciales), 23. Order-Caryophyllales, 24. Order-Polygonales, 25. Order-Chenopodiales, 26. Order-Sarraceniales, 27. Order-Umbellales, 28. Order-Asterales, 29. Order-Solanales, 30. Order-Personales, 31. Order-Lamiales, *THE MONOCOTYLEDONES*: 32. Order-Zingiberales, 33. Order-Liliales, 34. Order-Amaryllidales, 35. Order-Palmales, 36. Order-Orchidales, 37. Order-Cyperales, 38. Order-Graminales, 39. How to Describe an Angiospermic Plant, Part-II: Anatomy of Angiosperms: 40. Introduction, 41. The Tissue, 42. Apical Meristems, 43. The Tissue System, 44. The Root-Primary and Secondary Structure, 45. The Stem-Primary and Secondary Structure, 46. The Stem-Anomalous Structure, 47. Anatomy of the Leaf and the Petiole, 48. Ecological Anatomy, 49. The Mechanical Tissue, 50. Anatomy of the Flower, Embryo and Seeding, 51. Plant Anatomy in India, 52. Tools and Techniques, Part-III: Embryology of Angiosperms: 53. Introduction, 54. Stamen or Microsporophyll and Microsporogenesis, 55. Carpel or Megasporophyll and Megasporogenesis, 56. Female Gametophyte or Megagametophyte, 57. Male Gametophyte or Microgametophyte, 58. Fertilization, 59. The Endosperm, 60. Embryo and its Development (Embryogenesis), 61. Polyembryony, 62. Apomixis, 63. Experimental Embryology and Morphogenesis, Part-IV. Economic Botany: 64. Introduction, 65. Cereals and Millets, 66. Legumes and Nuts, 67. Vegetables, 68. Fruits, 69. Fibres and Fibre Yielding Plants, 70. Wood and Cork, 71. Rubber and its Products, 72. Fatty Oils and Vegetable Fats, 73. Essential Oils, 74. Sugar, 75. Pulp and Paper Industry (A Cellulose Product), 76. The Medicinal Plants-Pharmacognosy, 77. Spices and Condiments, 78. Non-alcoholic Beverages and Beverage Plants, 79. Useful Aspects of Lower Plants, 80. An Introduction to Ethnobotany • *Question Bank*

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.



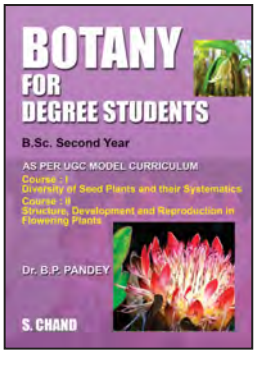

## Botany for Degree Students (For B.Sc. First Year)

B P Pandey

**ISBN: 9788121928090**
**Code: 1003B00355**
**Price: ₹ 615 | Pages: 1,024**
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### Contents

COURSE-I: DIVERSITY OF MICROBES AND CRYPTOGAMS, Unit-1: Diversity of Microbes: 1. Viruses: General Account, 2. Bacteria, Mycoplasma, Actinomycetes and Cyanobacteria, Unit-2: Diversity of Cryptogams: Algae: 3. Algae: General Topics, 4. Chlorophycophyta – Chlorophyceae (The Green Algae), 4 A. Charophyta – Charohyceae (Stoneworts), 5. Xanthophycophyta – Xanthophyceae (Yellow Green Algae), 6. Phaeophycophyta – Phaeophyceae (The Brown Algae), 7. Rhodophycophyta – Rhodophyceae (The Red Algae), Unit-3: Diversity of Cryptogams: Fungi: 8. Fungi – Introduction, 9. Classification of Fungi, 10. Sub-div. Mastigomycotina Class-Oomycetes, 11. Sub-div. Zygomycotina Class–Zygomycetes, 12. Sub–div. Ascomycotina Class–Ascomycetes, 13. Sub–div. Basidiomycotina Class–Basidiomycetes, 14. Sub–Class–Heterobasidiomycetidae (Rusts and Smuts), 15. Sub–Class–Homobasidiomycetidae (Mushrooms), 16. Sub-div. Deuteromycotina Class–Deuteromycetes, 17. Fungi: General Topics, 18. The Lichens: General Account, Unit-4: Diversity of Cryptogams: Bryophyta: 19. Bryophytes: Introduction, 20. Classification of Bryophytes, 21. Hepaticopsida: Order–Marchantiales, 22. Anthocerotopsida: Order Anthocerotales, 23. Bryopsida (Musci): Order–Funariales, 24. Bryophytes: General Topics, Unit-5: Diversity of Cryptogams: Pteridophyta: 25. Pteridophytes: Introduction, 26. Order – Psilophytales, 27. Order–Lycopodiales, 28. Order–Selaginellales, 29. Order – Equisetales, 30. Order–Marsileales, 31. Order – Filicales, 32. Pteridophytes: General Topics, COURSE-II: CELL BIOLOGY AND GENETICS: Unit-6: Cell Biology: 33. The Cell: Structure and its Components, 34. The Cell Wall, 35. The Cell Division, Unit-7: Genetics–Continuity of Life: 36. Genetic Basis of Inheritance, 37. Chromosomal Basis of Inheritance, 38. Nature of Gene: Its Expression and Regulation, 39. Allelic and Non-allelic Interactions, 40. Genetic Variations: Mutations, 41. Transposable Genetics Elements, 42. Plasmids, 43. Chromosomal Aberrations: Structural Changes, 44. Variation in Chromosome Number, 45. Chromosome Organization, 46. Sex Chromosomes, 47. Extra-Nuclear or Cytoplasmic Inheritance, 48. Protein Structure, 49. DNA Damage and Repair



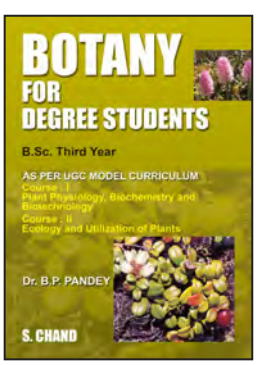

## Botany for Degree Students (For B.Sc. Second Year)

B P Pandey

**ISBN: 9788121928106**
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**Price: ₹ 750 | Pages: 896**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

COURSE-I: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS: Units-1: Systematics of Gymnosperms: 1. Gymnosperms: Introduction, Unit-2: Diversity of Gymnosperms: Palaeobotany: 2. Fossilization and Fossil Gymnosperms, Unit-3: Diversity of Living Gymnosperms: 3. Class – Cycadopsida; Order- Cycadales; Genus – Cycas, 4. Class – Coniferopsida; Order – Coniferales; Genus – Pinus, 5. Class – Gnetopsida; Order – Gnetales; Genus – Ephedra, Unit-4: Systematics of Flowering Plants: 6. Angiosperms: Introduction, 7. Evolution of Classification, 8. Modern Trends in Taxonomy, 9. Nomenclature of Plants, 10. Plants Collection and Preparation of Herbarium, Unit-5: How to Describe an Angiospermic Plant: 11. How to describe an Angiospermic Plant, 12. Angiosperms: Glossary with Illustrations, 13. Glossary of Botanical Terms, Unit-6: Diversity of Flowering Plants: 14. The Dicotyledones – Order - Rosales – Family – Rosaceae, 15. Order – Leguminales, Family – Fabaceae, 16. Order – Malvales Family – Malvaceae, 17. Order – Euphorbiales Family- Euphorbiaceae, 18. Order – Rutales Family – Rutaceae, 19. Order – Apocynales Family- Apocynaceae & Family – Asclepiadaceae, 20. Order – Rubiales Family – Rubiaceae, 21. Order – Ranales Family – Ranunculaceae, 22. Order – Brassicales (Cruciales), Family – Brassicaceae (Cruciferae), 23. Order – Caryophyllales Family – Caryophyllaceae, 24. Order – Chenopodiales Family – Chenopodiaceae & Family – Amaranthaceae, 25. Order – Umbellales Family – Apiaceae (Umbelliferae), 26. Order – Solanales Family – Solanaceae, 27. Order – Personales Family – Acanthaceae, 28. Order – Laminales Family – Lamiaceae (Labiatae), 29. The Monocotyledones Order – Liliales Family – Liliaceae and Allies, 30. Order – Graminales Family – Poaceae (Gramineae) • *Question Bank,* COURSE-II: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS: Unit-1: Diversity and Morphology: 31. Basic Body Plan of Flowering Plant, 32. Convergence of Evolution of Tree Habit, 33. Trees: Largest and Longest Lived Organisms, 34. Diversity and Morphology of Flowering Plants, Unit-2: Meristems and Anatomy: 35. The Tissue, 36. Apical Meristems, 37. The Tissue System, 38. Nodal Anatomy, 39. The Cambium, 40. The Shoot System: Primary and Secondary Structure, 41. Leaf: Origin, Development and Anatomy, 42. The Root System: Primary and Secondary Structure, 43. Anatomy of the Embryo and Young Seedling, 44. Anatomy of the Floral Parts, 45. Special Flowering Plants, Unit-3: Reproduction and Development: 46. Reproduction in Flowering Plants



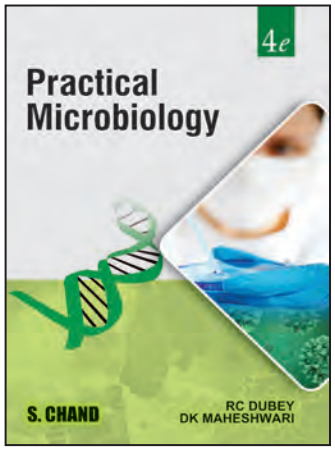

## Botany for Degree Students (For B.Sc. Third Year)

B P Pandey

**ISBN: 9788121928458**
**Code: 1003B00363**
**Price: ₹ 725 | Pages: 720**
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### Contents

COURSE-I: PLANT PHYSIOLOGY, BIOCHEMISTRY AND BIOTECHNOLOGY: Unit-1: Biochemistry: 1. Basics of Enzymology – Enzymes, Unit-2: Plant Physiology: 2. Plant Water Relations, 3. Mineral Nutrition and Nitrogen Metabolism, 4. Respiration, 5. Photosynthesis and Transport of Organic Substances, 6. Plant Growth and Development, 7. Lipid (Fat) Metabolism, Unit-3: Genetic Engineering: 8. Genetic Engineering, Cloning and Genomics, Unit-4: Biotechnology: 9. Plant Tissue Culture and Biotechnology, COURSE-II: ECOLOGY AND UTILIZATION OF PLANTS: Unit-5: Ecology: 10. Organisms and the Environment, 11. Population, Biotic Community and Succession, 12. Ecosystem: Structure and Function, 13. Natural Resources and Vegetation Types of India, 14. Biodiversity and Biogeographical Regions of India, 15. Environmental Changes, Unit-6: Utilization of Plants (Economic Botany): 16. Introduction, 17. Food Plants, 18. Fibres and Fibre Yielding Plants, 19. Vegetable and Fatty Oils, 20. Wood and Cork, 21. Bamboos in India, 22. Spices and Condiments, 23. The Medicinal Plants: Pharmacognosy, 24. Non-Alcoholic Beverages and Beverage Plants, 25. Rubber and its Products • *Question Bank*




## Practical Microbiology, 4/e

Dr. R.C. Dubey & D K Maheshwari

### About the Book

This revised edition of Practical Microbiology is a concise and practical guide for students of Microbiology. It is a valuable practical resource for the students of both undergraduate and postgraduate levels, besides the research students in the laboratory of Microbiology, Pathology, Molecular Biology and Biotechnology. Comprising of more than 230 experiments, the book commences with underpinnings for laboratory work and proceeds to detail on microscopes, laboratory reagents, dissections, preparation of permanent slides, mountings and so on, providing a comprehensive treatment of the subject. The book has been written in lucid and easily understandable language for students. Viva-voce exercises have been provided at the end of each chapter.

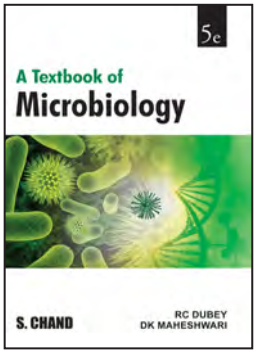
### Key Features

- Important Microorganisms such as Bacteria, Algae, Actinomycetes, have been aptly discussed along with their habit and habitat
- Relevant and well-labelled diagrams have been provided to stimulate interest and aid in learning & memorizing the practical aspect of the subject
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## A Textbook of Microbiology 5e

R.C. Dubey &

D.K. Maheshwari

**ISBN: 9789355015273**
**Price: ₹ 1095 | Pages: 1,104**
**Size: 6.5" X 9.25" (Hardback)**

### About the Book

This new edition of A Textbook of Microbiology continues to provide a comprehensive coverage on the basic principles of the subject with its focus on the concepts of ecology of microorganisms. The book has been written in lucid and easily understandable language for students. Each chapter has self-test exercise at the end of the book. Besides fulfilling the needs of undergraduate students, this book would also be useful for postgraduate students as well as aspirants of various competitive examinations.

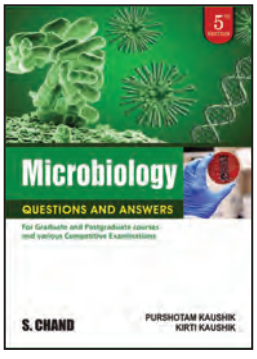
### Key Features

- Exhaustive coverage on microorganisms and microbial interactions
- A detailed discussion on Covid -19 as one of the air borne viral disease
- Discussion on Viruses including bacteriophages and its importance
- Colored graphics and illustrations have been provided throughout the text for the better understanding of the concepts

### Contents

1. Introduction, 2. Classification of Microorganisms, 3. Methods in Microbiology, 4. The Microbial Cells: Morphology and Fine Structure, 5. The Nucleic Acids: DNA and RNA, 6. Gene: Concepts and Synthesis, 7. Genetic Code, 8. Microbial Genetics, 9. Mutation and Mutagenesis, 10. Gene Expression and Regulation, 11. Gene Cloning in Microorganisms: Genetic Engineering, 12. Microbial Metabolism, 13. Bacterial Photosynthesis, 14. Nitrogen Fixation, 15. Viruses-I: General Characters, 16. Viruses-II: Plant Viruses and Sub-viral Agents, 17. Viruses-III: Animal Viruses and Prions, 18. Viruses-IV: Bacteriophage, Cyanophages and Mycoviruses, 19. Pharmaceutical Microbiology, 20. Industrial Microbiology, 21. Microbiology of Milk, Dairy and Food, 22. Immunology, Defense mechanism, Immunity and diagnosis, 23. The Infectious Diseases: Epidemiology, Parasitism Chemotherapy, 24. Medical Microbiology I: Protozoan and Fungal Diseases, 25. Medical Microbiology II: Bacterial and Viral Diseases, 26. Human Cancer, 27. Cellular Microbiology, 28. Microbial Ecology I: Ecological Groups and Microbial Interactions, 29. Microbial Ecology III: Extremophiles (Acidophiles, Alkalophiles, Halophiles, Thermophiles and Hyperthermophiles, Psychrophiles, Barophiles), 30. Microbial Ecology III: Soil Microbiology, 31. Microbial Ecology IV: Water Microbiology, 32. Microbiology of Air (Aeromicrobiology), 33. Environmental Microbiology, 34. Agricultural Microbiology (Biofertilizers and Biopesticides), 35. Instrumentation in Microbiology, • *Index*

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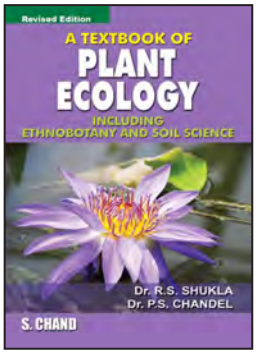

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### (Questions and Answers)

Purshotam Kaushik & Kirti Kaushik

**ISBN: 9789352831227**
**Code: 9789352831227**
**Price: ₹ 495 | Pages: 488**
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### Contents

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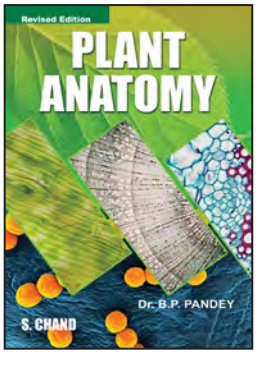

## A Textbook of Plant Ecology

R S Shukla & P S Chandel

**ISBN: 9788121905480**
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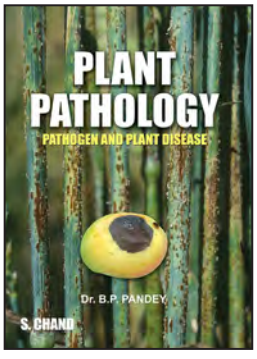

## Plant Anatomy

B P Pandey

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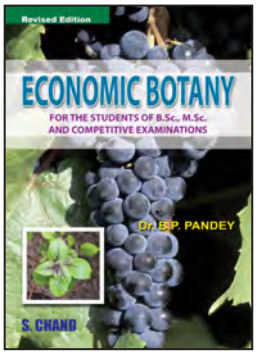

## Plant Pathology

B P Pandey

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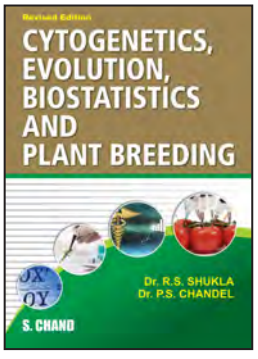

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B P Pandey

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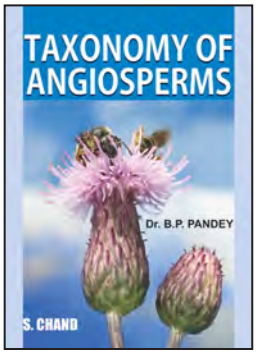

## Cytogenetics, Evolution, Biostatistics and Plant Breeding

R S Shukla & P S Chandel

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## Taxonomy of Angiosperms

B P Pandey

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### Contents

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# Introduction to Classical Biology Course 1

BP Pandey

## About the Book

It gives me immense pleasure to present this textbook to the Undergraduate students and teachers fraternity of Biology. This textbook has been designed to meet the needs of B.Sc. First Semester students for the Andhra Pradesh State Council of Higher Education (APSCHE).

This textbook comprehensively covers the Course 1, namely, Introduction to Classical Biology. The book has been divided into five units comprising of 20 chapters. The book introduces the students to develop an understanding about the diversity and classification of living organisms and learn their chemical, cytological, evolutionary and genetic principles. It also discusses the principles of classification and preservation of biodiversity. Further the students will know the animal classification, physiology, embryonic development and their economic importance.

## Key Features

- Comprehensive coverage of the syllabus
- Written in lucid manner for better understanding of concept
- Engaging chapter-end exercises have been provided for practice

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## Contents

Unit I: Introduction to Systematics, Taxonomy and Ecology
1. Systematics and Taxonomy
2. Biological Nomenclature
3. Ecology
4. Environmental Pollution and Climate Change

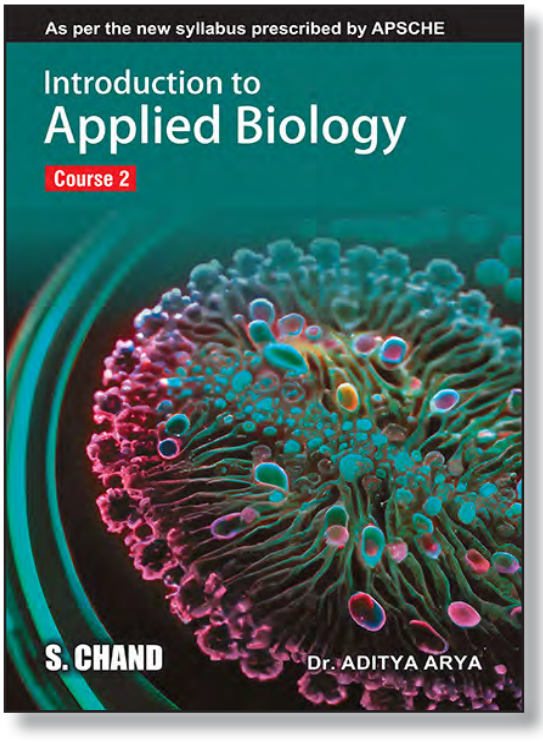
Unit II: Essentials of Botany
5. Plant Taxonomy
6. Plant Physiology
7. Plant Reproduction
8. Applied Botany

Unit III: Essentials of Zoology
9. Animal Taxonomy
10. Animal Physiology
11. Developmental Biology
12. Applied Zoology

Unit IV: Cell Biology, Genetics and Evolution
13. Cell Structure and Cell Cycle
14. Chromosome and Heredity
15. Central Dogma of Molecular Biology
16. Origin of Life

Unit V: Essentials of Chemistry
17. Definition and Scope of Chemistry
18. Branches of Chemistry
19. Chemical Bonding
20. Green Chemistry

**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# Introduction to Applied Biology Course 2

Dr. Aditya Arya

## About the Book

It gives me immense pleasure to present this textbook to the Undergraduate students and teachers fraternity of Biology. This textbook has been designed to meet the needs of B.Sc. First Semester students for the Andhra Pradesh State Council of Higher Education (APSCHE).

This textbook comprehensively covers the Course 2, namely, Introduction to Applied Biology. The book has been divided into five units comprising of 21 chapters. The book introduces the students to learn the foundations and principles of microbiology, immunology, biochemistry, biotechnology, analytical tools, quantitative methods, and bioinformatics. It also discusses the techniques, tools and their uses in diagnosis and therapy. Further the students will identify the bioinformatics and statistical tools in comprehending the complex biological data.

## Key Features

- Comprehensive coverage of the syllabus
- Written in lucid manner for better understanding of concept
- Engaging chapter-end exercises have been provided for practice

**ISBN: 9789358700008 | Price: ₹ 380 | Pages: 416 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit I: Essentials of Microbiology and Immunology
1. History of Microbiology
2. Microbes: Types and Classification
3. Applications of Microbes
4. Basic Principles of Immunology

Unit II: Essentials of Biochemistry
5. Biomolecules–I: Carbohydrates and Lipids
6. Biomolecules–II: Amino Acids and Proteins
7. Biomolecules–III: Nucleic Acids
8. Metabolism and Catalysis

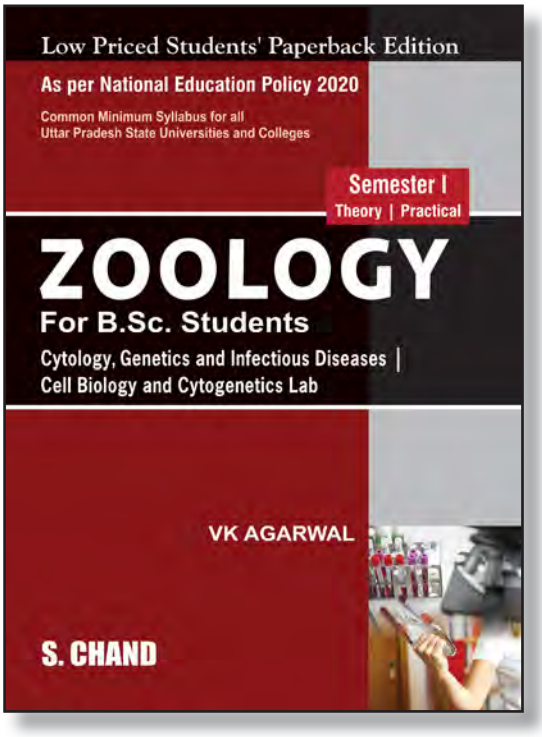
Unit III: Essentials of Biotechnology
9. History and Applications of Biotechnology
10. Environmental Biotechnology
11. Genetic Engineering
12. Transgenic Organisms

Unit IV: Analytical Tools and Techniques in Biology–Applications
13. Forensic Techniques (PCR and DNA Fingerprinting)
14. Immunological Techniques (Immunoblotting and ELISA)
15. Monoclonal Antibodies: Production and Applications
16. Eugenics and Gene Therapy

Unit V: Biostatistics and Bioinformatics
17. Biostatistics – I: Data Collection and Sampling
18. Biostatistics – II: Central Tendencies and Dispersion
19. Biostatistics – III: Probabilities and Significance
20. Bioinformatics – I: Genomics, Proteomics and Biological Data
21. Bioinformatics – I: Genomics, Proteomics and Biological Data

**Dr. Aditya Arya,** Scientist, National Institute of Malaria Research, Dwarka, New Delhi.

(NEP 2020, CMS Uttar Pradesh)




# Zoology for B.Sc. Students Semester I: NEP 2020 Uttar Pradesh

VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Zoology as per the Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 (NEP 2020). It comprehensively covers two papers, namely Theory paper on Cytology, Genetics and Infectious Diseases and Practical paper on Cell Biology & Cytogenetics Lab. While this textbook gives a thorough overview of genetics and infectious diseases, it aptly covers important topics such as structure and functions of cell organelles, nucleus, cell cycle, cell division, human chromosomes & its pattern of inheritance. The text part also discusses the pathogenic organisms and the infectious diseases caused by them. Practical part covering Cell Biology & Cytogenetics Lab has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

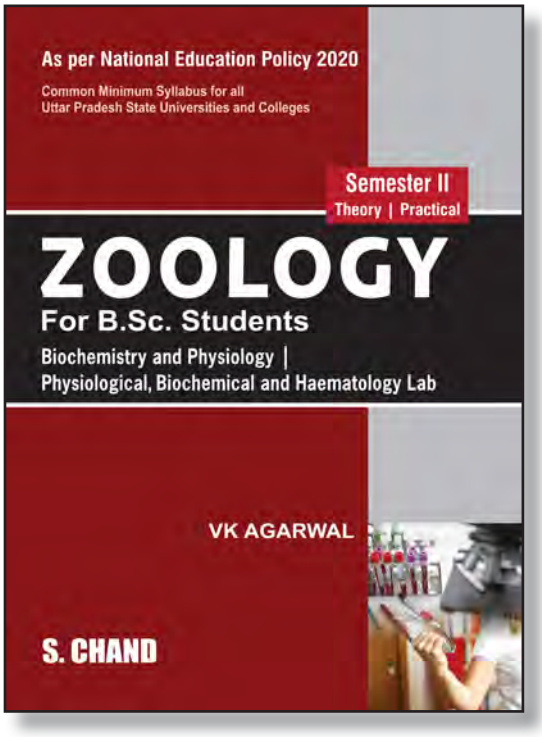
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

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## Contents

PAPER I 1: Introduction
2: Prokaryotic Cell and Eukaryotic Cell
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4: Cell-Cell Interactions: Cell Junctions, Cell Adhesion and Extracellular Matrix (ECM)
5: Endomembrane System: I. Endoplasmic Reticulum (ER)
6: Endomembrane System: II. Golgi Apparatus
7: Endomembrane system: III. Protein Targeting and Sorting; Endocytosis and Exocytosis
8: Cytoskeleton: (Microtubules, Microfilaments, Intermediate Filaments)
9: Mitochondria
10: Structure and Functions of Peroxisomes, Ribosomes and Lysosomes
11: Nucleus
12: DNA and RNA (Genetic Materials)
13: Chromosomes and Types of DNA
14: Non-genetic RNAs
15: Cell Cycle and Cell Divisions: Mitosis and Meiosis
16: Apoptosis or Programmed Cell Death (PCD)
17: Cell Signalling (Messengers, Receptors and Signal Transduction)
18: Introduction and History of Genetics
19: Mendel's Laws, Monohybrid and Dihybrid Crosses
20: Complete Dominance, Incomplete Dominance and Codominance
21: Penetrance and Expressivity
22: Chromosomal and Environmental Sex Determination and Sex Differentiation
23: Sex Linkage (Sex-linked Inheritance)
24: Multiple Alleles
25: Interactions of Genes
26: Sex Influenced and Sex Limited Characteristics; Genomic Imprinting and Anticipation (Fragile-X Syndrome)
27: Non-Chromosomal Inheritance (Cytoplasmic Inheritance)
28: Inheritance of Continuous Characteristics (Polygenic Inheritance) and Environmental Effects on Gene Expression
29: Human Chromosomes, Karyotypes and Chromosomal Anomalies
30: Human Genetics (Pedigree Analysis; Pattern of Inheritance)
31: Infectious Diseases of Human beings
32: Trypanosoma
33: Giardia
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Practical- PAPER II: Cell Biology & Cytogenetics Lab
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3: Study of Meiosis in a Animal Cell
4: Molecular Models
5: Osmosis
6: Study of Parasites Protozoans, Helminths
7: Preparation of Temporary and Permanent Mounting
8: Mutant Phenotypes of Drosophila
9: Study of Giant Chromosomes
10: Study of Sex Shromatin (Barr Bodies) in Buccal Smear (Human)
11: Preparation of Pedigree Chart
• Viva-Voce


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# Zoology for B.Sc. Students Semester-II NEP-2020-Uttar Pradesh

VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Zoology as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers two papers, namely, Biochemistry & Physiology and Physiological, Biochemical & Haematology Lab. While this textbook gives a thorough overview of Biochemistry and Physiology, it aptly covers important topics such as metabolism of carbohydrates, lipids, protein & nucleotides, mechanism of respiration and pulmonary ventilation. Practical part covering Physiological, Biochemical and Haematology Lab has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

- More than 300 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises, having more than 800 questions, to enhance and strengthen learning

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## Contents

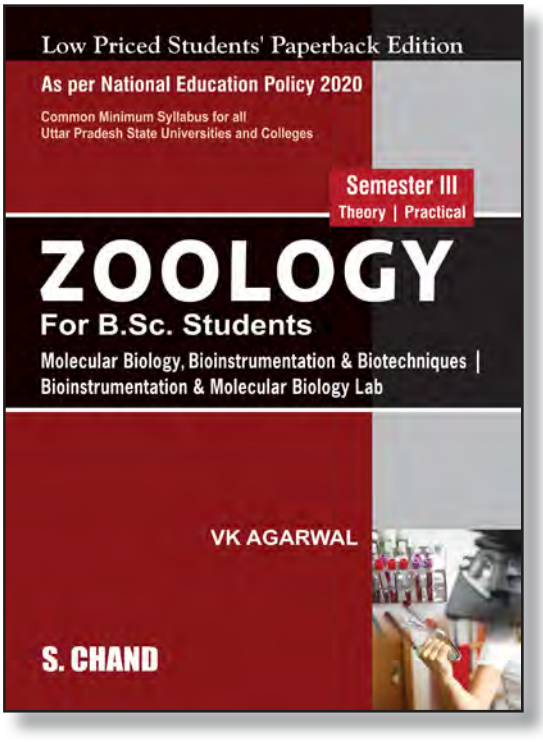
**PAPER I: Biochemistry and Physiology**

1: Biochemistry and Animal Physiology: An Introduction
2: Carbohydrates
3: Lipids
4: Amino Acids, Peptides and Proteins
5: Enzyme Action and Regulation
6: Metabolism of Carbohydrates
7: Metabolism of Lipids
8: Metabolism of Protein and Nucleotides
9: Physiology of Digestion
10: Physiology of Respiration
11: Physiology of Circulation, Blood and Heart
12: Excretion
13: Physiology of Transmission of Nerve Impulse
14: Endocrine Glands
15: Physiology of Muscular System

**PAPER II: Physiological, Biochemical and Haematology Lab**

1: Physiological, Biochemical and Haematological Lab
2: Study of Permanent Mammalian Slides: Spotting on Histology and Endocrinology
3: Experimental Physiology
• Viva-Voce Questions

(NEP 2020, CMS Uttar Pradesh)




# Zoology for B.Sc. Students Semester-III NEP-2020-Uttar Pradesh

VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. Third Semester students of Zoology as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers two papers, namely, theory paper on Molecular Biology, Bioinstrumentation and Biotechniques and practical paper on Bioinstrumentation and Molecular Biology Lab. The Molecular Biology part of the book emphasizes the fundamental features of various aspects of DNA, RNA, and protein structure, function, and expression. The regulation of Gene expression in Prokaryotes and Eukaryotes is presented in a very lucid and comprehensive way.

## Key Features

- More than 250 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises to enhance and strengthen learning

**ISBN: 9789355014993 | Price: ₹ 395 | Pages: 408 | Size: 6.5" X 9.25" (Paperback)**

## Contents

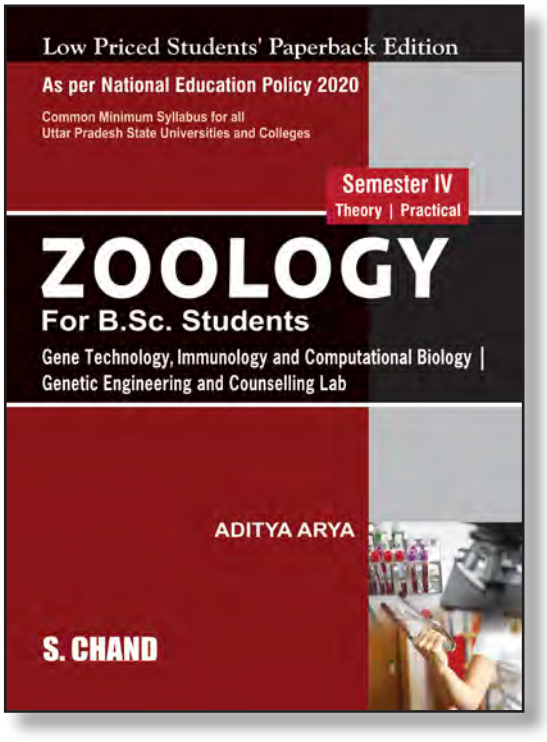
PAPER I: Molecular Biology, Bioinstrumentation & Biotechniques

1: Definition, History and Prologue
2: Organisms Used in Molecular Biology
3: Fine Structure of Gene
4: Transcription
5: Messenger RNA
6: Ribosomal RNA (rRNA) and Transfer RNA (tRNA)
7: Genetic Code
8: Process of Translation
9: Post-Translational Processing of Proteins
10: Regulation of Gene Expression in Bacteria (Prokaryotes) and Viruses
11: Regulation of Gene Expression in Eukaryotes
12: Regulatory RNAs: Riboswitches, RNA Interference (RNAi), siRNAs and miRNAs
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14: Centrifugation and Chromatography
15: Biochemical Techniques: Measurement of pH
16: Colorimetry and Spectrophotometry
17: Measurement, Applications and Safety Measures of Radio Tracer Techniques
18: Molecular Techniques: Electrophoresis
19: Molecular Techniques
20: Polymerase Chain Reaction (PCR)
21: Proteomics: Detection of Proteins, PAGE, ELISA and Western Blotting

PAPER II: Bioinstrumentation & Molecular Biology Lab

1: Microscopes
2: To Prepare Solutions and Buffers
3: Experiments in Spectrophotometry and Chromatography
• Viva-Voce Questions

Dr V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.




# Zoology for B.Sc. Students Semester IV NEP-2020-Uttar Pradesh

Aditya Arya

## About the Book

This textbook has been designed to meet the needs of B.Sc. Fourth Semester students of Zoology as per the Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 (NEP 2020).

It comprehensively covers two papers, namely theory paper on Gene Technology, Immunology and Computational Biology and practical paper on Genetic Engineering and Counselling Lab. While this textbook gives a thorough overview of Gene Technology, Immunology and Computational Biology, it aptly covers important topics such as principles of gene manipulation, application of genetic engineering and immune system & its components. The text part also discusses the basics of computer and bioinformatics including database, sequence analysis and phylogenetic analysis. Practical part covering Genetic Engineering and Counselling Lab has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

**ISBN: 9789355016560 | Price: ₹ 325 | Pages: 288 | Size: 6.5" X 9.25" (Paperback)**

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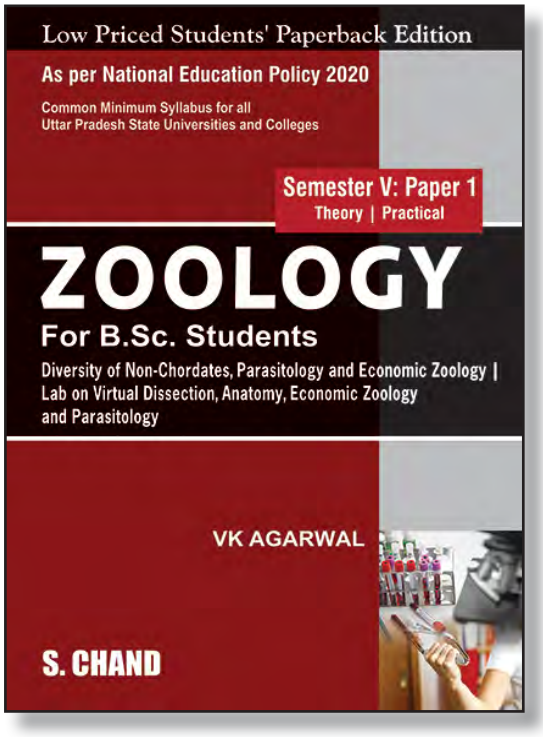
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• Appendices

**Aditya Arya:** Scientist, National Institute of Malaria Research, Dwarka, New Delhi.

(NEP 2020, CMS Uttar Pradesh)




# Zoology for B.Sc. Students

## Semester V: Paper 1 NEP-2020-Uttar Pradesh

VK Agarwal

### About the Book

This textbook has been designed to meet the needs of B.Sc. Fifth Semester students of Zoology as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers Paper 1, namely, Diversity of Non-Chordates, Parasitology and Economic Zoology. Theory part of this book aptly discusses the comprehensive identification abilities of non-chordate diversity and also explains the structural and functional diversity of non-chordates. Experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures

### Key Features

- More than 250 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

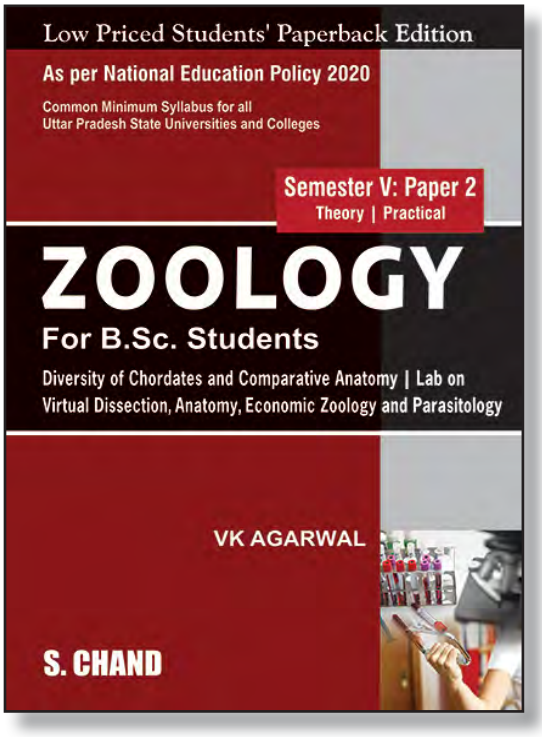
**ISBN: 9789355018113 | Price: ₹ 425 | Pages: 488 | Size: 6.5" X 9.25" (Paperback)**

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Experiment 1 to 18

**VK Agarwal,** MSc, PhD, Former Head of the Zoology Department, Meerut College, Meerut, Uttar Pradesh.




# Zoology for B.Sc. Students

## Semester V: Paper 2 NEP-2020-Uttar Pradesh

VK Agarwal

### About the Book

This textbook has been designed to meet the needs of B.Sc. Fifth Semester students of Zoology as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. It comprehensively covers Paper 2, namely, Diversity of Chordates and Comparative Anatomy. The theory part of this book aptly discusses the comprehensive identification abilities of chordate diversity and also explains structural and functional diversity of chordates. Experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

### Key Features

- More than 500 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789355018137 | Price: ₹ 550 | Pages: 664 | Size: 6.5" X 9.25" (Paperback)**

### Contents

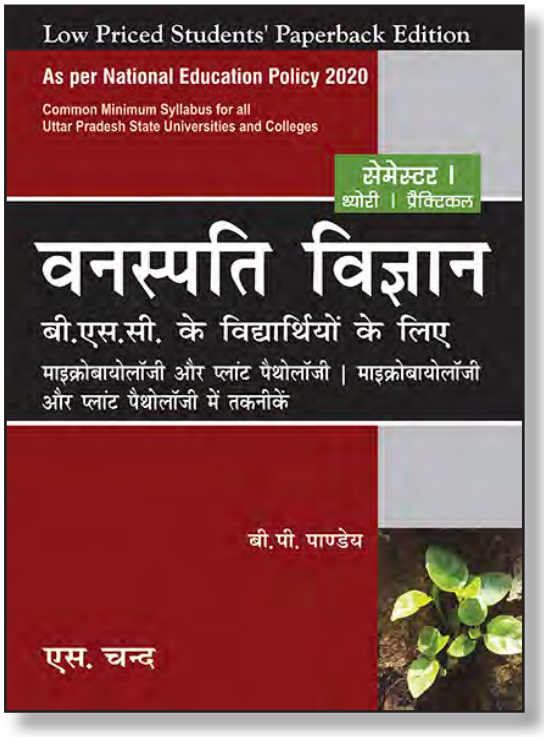
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Practical: Lab on Virtual Dissection, Anatomy, Economic Zoology and Parasitology
Experiment 1 to 8

**VK Agarwal,** MSc, PhD, Former Head of the Zoology Department, Meerut College, Meerut, Uttar Pradesh.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# वनस्पति विज्ञान बी.एस.सी. के विद्यार्थियों के लिए सेमेस्टर I NEP-2020-Uttar Pradesh

BP Pandey

### पुस्तक के विषय में

यह पाठ्यपुस्तक अनुशंसित राष्ट्रीय शिक्षा नीति 2020 के अंतर्गत उत्तर प्रदेश राज्य के सभी विश्वविद्यालयों और कॉलेजों के बी.एस.सी. वनस्पति विज्ञान के प्रथम सेमेस्टर के विद्यार्थियों के लिए विकसित की गई है। विषय के प्रति पारम्परिक दृष्टिकोण को बनाये रखते हुए, इस पाठ्यपुस्तक में दो प्रपत्र 'माइक्रोबायोलॉजी और प्लांट पैथोलॉजी' और 'माइक्रोबायोलॉजी और प्लांट पैथोलॉजी में तकनीकें' शामिल किये गये हैं। यह पुस्तक छात्रों को वायरस, शैवाल, कवक और लाइकेन सहित विभिन्न रोगाणुओं के वर्गीकरण से परिचित कराती है। इसमें रोगजनक और पादप रोग प्रबंधन पर विस्तार से चर्चा की गई है, और रोगाणुओं, रोगजनकों, जैव उर्वरकों और लाइकेन की पहचान करने की अवधारणाओं को स्पष्ट रूप से समझाया गया है। प्रैक्टिकल भाग छात्रों को रोगाणुओं की पहचान करने और उनके औद्योगिक, कृषि और पर्यावरणीय उपयोगों के विषय में जानकारी प्रदान करता है।

### प्रमुख विशेषताएँ:

- विषय को रोचक और आकर्षक बनाने के लिए चित्र और उदाहरण
- प्रत्येक अध्याय के अंत में अभ्यास प्रश्न
- विषय के व्यावहारिक पहलू को सीखने और याद रखने में रूचि बढ़ाने एवं सहायता के लिए प्रयोगों का संग्रह

**ISBN: 9789355019004 | Price: ₹ 499 | Pages: 648 | Size: 6.5" X 9.25" (Paperback)**

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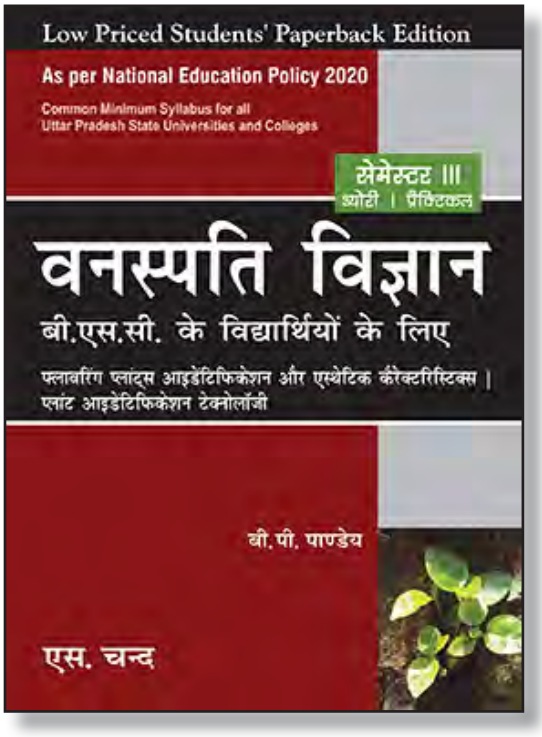
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**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.




# वनस्पति विज्ञान बी.एस.सी. के विद्यार्थियों के लिए सेमेस्टर III NEP-2020-Uttar Pradesh

BP Pandey

## पुस्तक के विषय में

यह पाठ्यपुस्तक अनुशंसित राष्ट्रीय शिक्षा नीति 2020 के अंतर्गत उत्तर प्रदेश राज्य के सभी विश्वविद्यालयों और कॉलेजों के बी.एस.सी. वनस्पति विज्ञान के तृतीय सेमेस्टर के विद्यार्थियों के लिए विकसित की गई है। विषय के प्रति पारंपरिक दृष्टिकोण को बनाए रखते हुए, इस पाठ्यपुस्तक में दो प्रपत्र 'फ्लावरिंग प्लांट्स आइडेंटिफिकेशन और एस्थेटिक कैरेक्टरिस्टिक्स' एवं 'प्लांट आइडेंटिफिकेशन टेक्नोलॉजी' शामिल किए गए हैं। यह पुस्तक छात्रों को प्लांट टैक्सोनॉमी और एंजियोस्पर्म के वर्गीकरण के विभिन्न दृष्टिकोणों से परिचित कराती है। इस पुस्तक में विविध टैक्सोनॉमिक संसाधन, रेफरेंस सामग्री, हर्बेरियम संग्रह और उनके प्रकाशन की भी व्याख्या की गई है। प्रैक्टिकल भाग में 'प्लांट आइडेंटिफिकेशन टेक्नोलॉजी' को एक व्यवस्थित रूप से प्रस्तुत किया गया है जिससे विद्यार्थियों को देसी वनस्पति के विविध टैक्सोनॉमिक वर्गीकरण के विषय में जानने और सीखने में सहायता मिल सके।

## प्रमुख विशेषताएँ:

- विषय को रोचक और आकर्षक बनाने के लिए चित्र और उदाहरण
- प्रत्येक अध्याय के अंत में अभ्यास प्रश्न
- विषय के व्यवहारिक पहलू को सीखने और याद रखने में रुचि बढ़ाने एवं सहायता के लिए प्रयोगों का संग्रह

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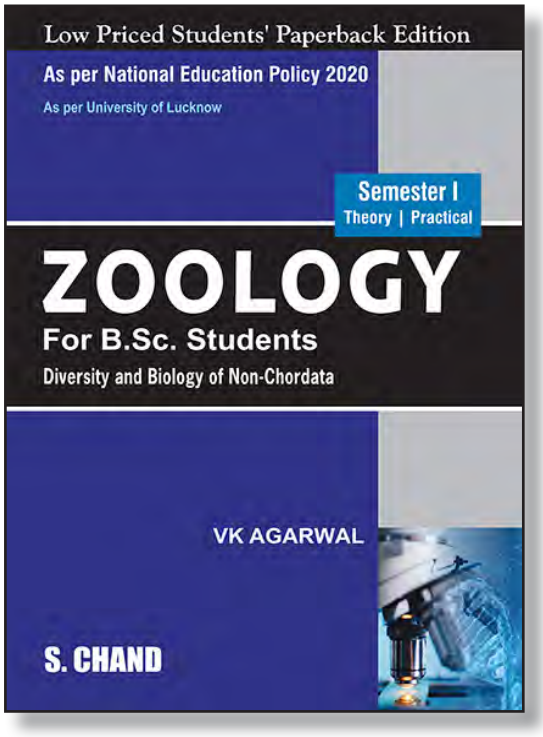
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**B P Pandey,** Formerly Reader and Head of Department - Botany, J.V. College, Baraut.

(NEP 2020, CMS Uttar Pradesh)




# Zoology for B.Sc. Students

## Semester I: NEP-2020-University of Lucknow

VK Agarwal

### About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Zoology for the University of Lucknow under the recommended National Education Policy 2020. It comprehensively covers theory and practical papers, namely, Diversity and Biology of Non-Chordata. The theory part of this book aptly discusses the identification and classification of non-chordate animals on the basis of their form and structure and describes the general characters of non-chordate animals. Practical part of the book will make the students understand the taxonomic position and body organization of invertebrates.

Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

### Key Features

- More than 350 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms and topics
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

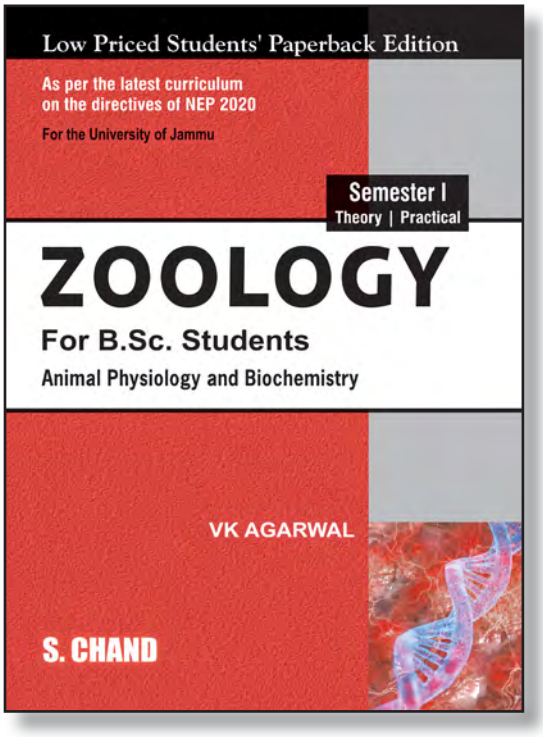
**ISBN: 9789355018458 | Price: ₹ 599 | Pages: 648 | Size: 6.5" X 9.25" (Paperback)**

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5: Leishmania
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8: Canal System of Porifera
9: Skeleton of Porifera
10: Reproduction in Porifera
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**VK Agarwal,** MSc, PhD, Former Head of the Zoology Department, Meerut College, Meerut, Uttar Pradesh.




# Zoology for B.Sc. Students Semester I NEP 2020 for the University of Jammu

VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Zoology for the University of Jammu under the recommended National Education Policy 2020. This textbook gives a thorough overview of Animal Physiology and Biochemistry, it aptly covers important topics such as metabolism of carbohydrates, lipids, protein & nucleotides, mechanism of respiration and pulmonary ventilation. Practical part has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

## Key Features

- More than 250 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises, having more than 700 questions, to enhance and strengthen learning

**ISBN: 9789355015174 | Price: ₹ 425 | Pages: 448 | Size: 6.5" X 9.25" (Paperback)**

## Contents

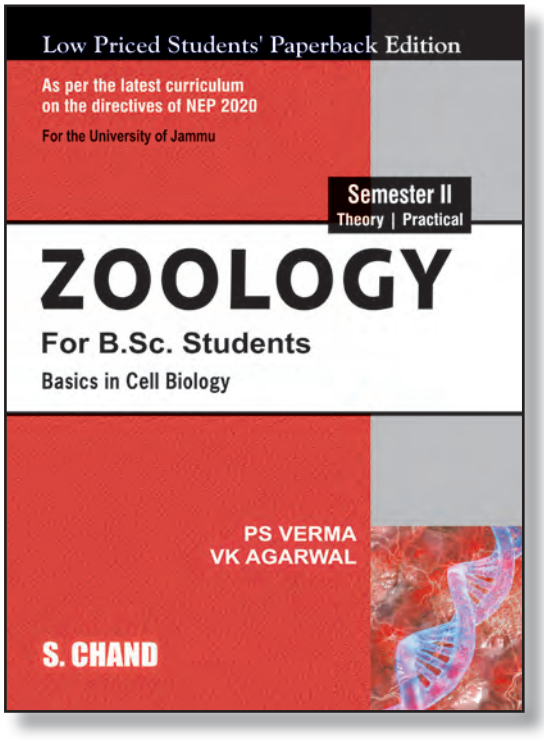
Theory
1: Biochemistry and Animal Physiology: An Introduction
2: Carbohydrates
3: Lipids
4: Amino Acids, Peptides and Proteins
5: Enzyme Action and Regulation
6: Metabolism of Carbohydrates
7: Metabolism of Lipids
8: Metabolism of Protein and Nucleotides
9: Physiology of Digestion
10: Physiology of Respiration
11: Physiology of Circulation, Blood and Heart
12: Excretion

Practical
1: Physiological, Biochemical and Haematological Lab
2: Study of Permanent Mammalian Slides
3: Experimental Physiology
• Viva-Voce Questions

Dr V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.

(NEP 2020 for the University of Jammu)

(NEP 2020 for the University of Jammu)




# Zoology for B.Sc. Students: Semester II NEP-2020 for the University of Jammu

PS Verma & VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Zoology for the University of Jammu under the recommended National Education Policy 2020. This textbook comprehensively covers the paper Basics in Cell Biology. The theory part has been divided into four units, comprising of 13 chapters. The chapters of the text introduce the students with the structure and functions of cell organelles like mitochondria, Golgi apparatus and ribosomes. Also, cell division topic including the cell cycle, mitosis and meiosis has been aptly discussed. Practical part has been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

This textbook contains simple, comprehensive, up-to-date and well-illustrated account of basics in Cell Biology. Also, special care has been taken to maintain clarity and authenticity of text and illustrations.

## Key Features

- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning & memorizing the practical aspect of the subject

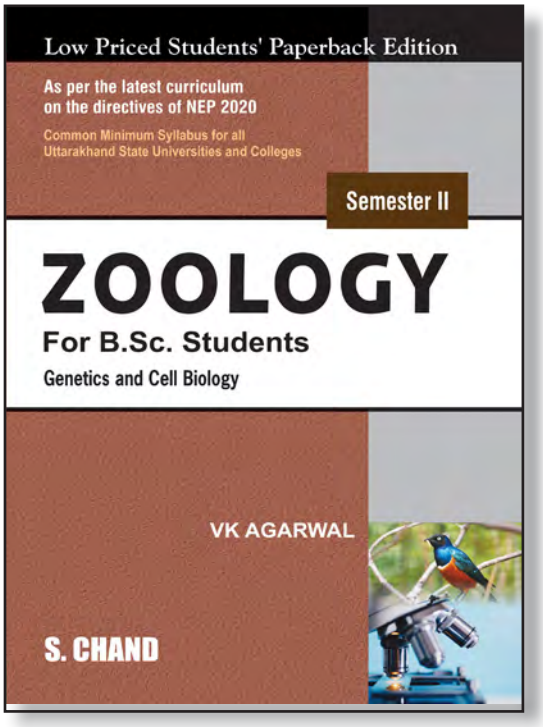
**ISBN: 9789355016652 | Price: ₹ 325 | Pages:296 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Theory
1: Introduction
2: Cell
3: Plasma Membrane and Cell Wall
4: Mitochondria
5: Endoplasmic Reticulum (ER)
6: Golgi Apparatus
7: Lysosomes
8: Nucleus
9: Chromosomes
10: Ribosomes
11: Cytoskeleton: Microtubules, Microfilaments and Intermediate Filaments
12: Centrioles and Basal Bodies
13: Cell Growth and Cell Division (Cell Cycle, Mitosis and Meiosis)
Practical
1: General Directions
2: Microscopes
3: Preparation of Laboratory Reagents
4: Cytological Preparations

**P S Verma,** Formerly Reader, Department of Zoology, Meerut College, Meerut.

V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.




# Zoology for B.Sc. Students Semester II NEP 2020 Uttarakhand

VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Zoology as per the Common Minimum Syllabus prescribed for all Uttarakhand State Universities and Colleges under the recommended National Education Policy 2020 (NEP 2020).

The book has been presented in two parts, namely Genetics and Cell Biology. The first part, Genetics discusses Mendel's life, laws of dominance, segregation and independent assortment. Further, it elucidates linkages, crossing over, sex linked inheritance and mutation. Second part of the book delineates on Cell Biology, discussing prokaryotic & eukaryotic cells, structure and functions of cell organelles. Also, cell division topic including the cell cycle, mitosis and meiosis has been aptly discussed.

This textbook contains simple, comprehensive, up-to-date and well-illustrated account of Genetics and Cell Biology. Also, special care has been taken to maintain clarity and authenticity of text and illustrations.

## Key Features

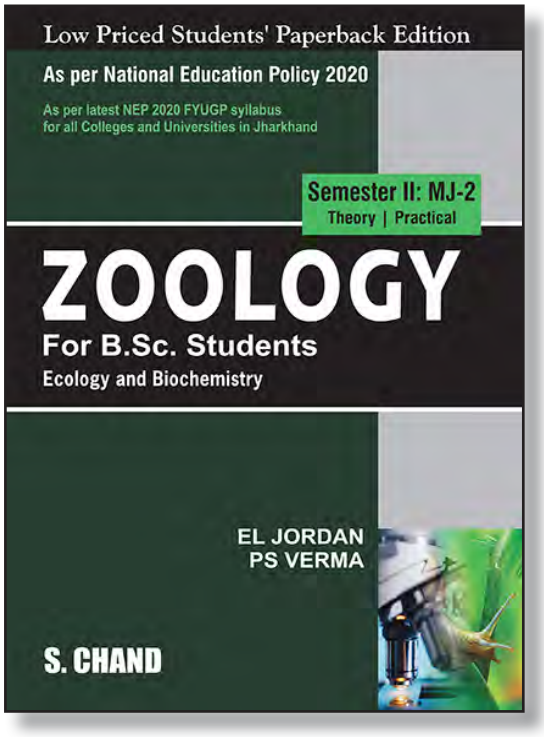
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Boxed items throughout the text providing information on intricate terms or topics

**ISBN: 9789355016621 | Price: ₹ 399 | Pages: 464 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Genetics
1: Introduction and History of Genetics
2: Mendel's Laws, Monohybrid and Dihybrid Crosses
3: Complete Dominance, Incomplete Dominance and Codominance
4: Linkage
5: Crossing Over
6: Eukaryotic Chromosomes
7: Determination of Sex
8: Sex Linkage (Sex-linked Inheritance)
9: Mutations: (i) Chromosomal
10: Mutation: (ii) Gene
11: The Gene (Fine Structure of Gene)
Cell Biology
12: Introduction to Cell Biology
13: Prokaryotic Cells and Eukaryotic Cells
14: Plasma Membrane
15: Cytoskeleton: (Microtubules, Microfilaments, Intermediate Filaments)
16: Cell - Cell Interactions: Cell Junctions, Cell Adhesion and Extracellular Matrix (ECM)
17: Mitochondria
18: Structure and Functions of Peroxisomes, Ribosomes and Lysosomes
19: Centrioles and Basal Bodies
20: Endomembrane System: I. Endoplasmic Reticulum (ER) 20.1-20.16
21: Golgi Apparatus (Golgi Complex)
22: Protein Targeting and Sorting; Endocytosis and Exocytosis
23: Nucleus and Nucleolus
24: Cell Cycle and Cell Divisions: Mitosis and Meiosis
25: Cell Transformation and Cancer (Biology of Cancer)

Dr V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.




# Zoology for B.Sc. Students

## Semester II: MJ-2 NEP-2020 for the Universities in Jharkhand

EL Jordan | PS Verma

### About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Zoology for the Ranchi University and Other Universities in Jharkhand under the recommended National Education Policy 2020. It comprehensively covers the theoretical and practical aspect of the paper Ecology and Biochemistry. The theory and practical part of this book has been divided into two groups, Group A 'Ecology' and Group B 'Biochemistry'. Group A discusses the evolutionary and functional basis of animal ecology, The students will understand what makes the scientific study of animal ecology a crucial and exciting endeavour. Group B discusses the importance and scope of biochemistry. This book will help the students to learn the structure and biological significance of carbohydrates, amino acids, proteins, lipids and nucleic acids. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

### Key Features

- Well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms and topics
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789358703177 | Price: ₹ 450 | Pages: 496 | Size: 6.5" X 9.25" (Paperback)**

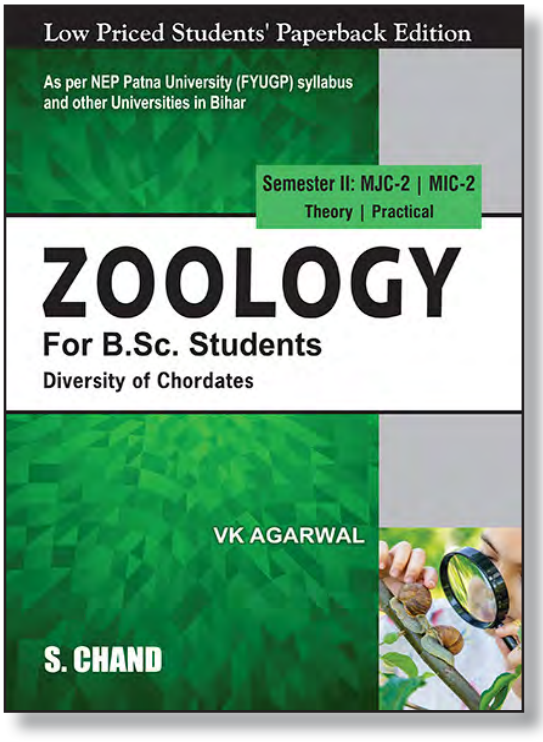
### Contents

THEORY
Group A: Ecology
Unit 1: An Overview of Ecology
1: Structure and Function of an Ecosystem
2: Energy Flow in an Ecosystem
3: Law of Limiting Factors
4: Productivity and its Management
5: Biomes
Unit 2: Population Ecology
6: Population Attributes
7: Exponential and Logistic Growth
8: Population Regulation
Unit 3: Community Ecology
9: Community Characters, Analytical and Synthetic Characters
10: Community Diversity Indices
11: Community Interactions
12: Niche Concept
13: Community Dynamics
Unit 4: Environment Management
14: Natural Resources
15: Biogeochemical Cycles
16: Biodiversity
17: Environmental Degradation
Unit 5: Environmental Movements
18: Chipko Movement
19: Silent Valley Movement
20: Sardar Sarovar Mega Dam Project
21: Role of Gender and Cultures in Environmental Conservation
PRACTICAL
Group A: Ecology
1. Life Tables and Survivorship Curves
2. Population Dynamics Study
3. Study of an Aquatic Ecosystem: Phytoplankton and Zooplankton
4. Field Visit to National Park
Group B: Biochemistry
1. Qualitative Analysis of Biomolecules
2. Paper Chromatography
3. Study of Salivary Amylase
4. Demonstration of Protein Separation by SDS-PAGE

**EL Jordan,** M.Sc., M.A. (Toronto), Formerly Head of Zoology Department, Lucknow Christian College, Lucknow
**PS Verma,** M.Sc., Ph.D., F.E.S.I., F.A.Z., Reader (Retd.), Department of Zoology, Meerut College, Meerut

(NEP 2020, Universities in Jharkhand)


e-mail: info@schandpublishing.com




# Zoology for B.Sc. Students

## Semester II: MJC-2 | MIC-2 NEP-2020 for the Universities in Bihar

VK Agarwal

### About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Zoology for Patna University and other Universities of Bihar under the recommended National Education Policy 2020. It comprehensively covers theory and practical papers, namely, Diversity of Chordates. The theory part of this book aptly discusses the classes of chordates, level of organisation and evolutionary relationship between different subphyla and classes, within and outside the phylum. The book teaches the students about the diversity in animals and their distinguishing features and help the students to understand the habit and habitat of chordates in marine, freshwater and terrestrial ecosystems. Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

### Key Features

- More than 350 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms and topics
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

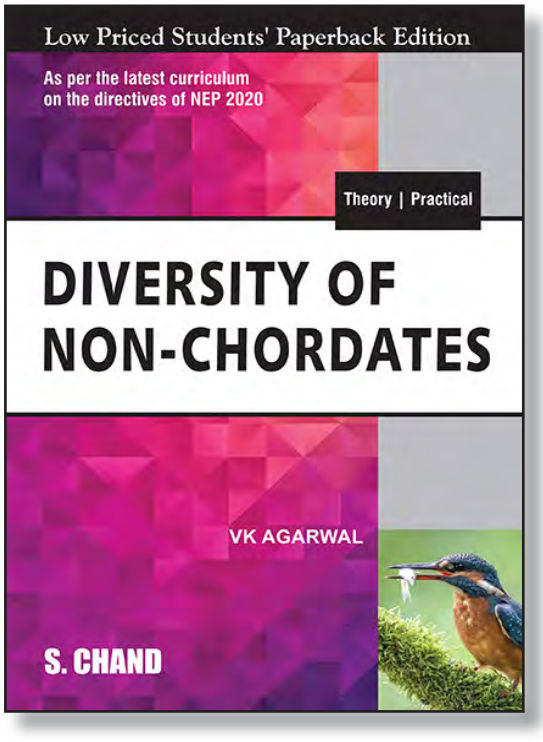
**ISBN: 9789358707847 | Price: ₹ 425 | Pages: 512 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Theory
1: Phylum Chordata
2: Origin and Evolution of Chordata
3: Cephalochordata: General Characters, Classification and Types
4: Branchiostoma (Amphioxus or Lancelet)
5: Urochordata: General Characters, Classification and Types
6: Urochordata: Herdmania
7: Class Cyclostomata and Petromyzon
8: Vertebrates and Pisces
9: Class Amphibia: General Characters, Classification and Types
10: Amphibia (Origin, Affinities, Parental Care and Heterochrony: Axolotl, Neoteny, etc.)
11: Class Reptilia: General Characters, Classification and Types
12: Poisonous and Non-poisonous Snakes; Biting Apparatus and Biting Mechanism
13: Class Aves (The Birds): General Characters, Classification and Types
14: The Pigeon: Columba livia
15: Class Mammalia: General Characters, Classification and Types

Practical
Experiment 1: Parmanent Slides of Amphioxus
Experiment 2: Microscopic Studies of Amphioxus
Experiment 3: Herdmania: Whole Mount and Spicules
Experiment 4: Cyclostomata: Case Study Petromyzon and Myxine
Experiment 5: Class: Chondrichthyes (Cartilaginous Fishes)
Experiment 6: Museum Specimens of Amphibia
Experiment 7: Museum Specimens of Reptilia
Experiment 8: Types of Beaks in Birds
Experiment 9: Case Studies

Dr V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.




# Diversity of Non-Chordates

## As per the latest curriculum on the directives of NEP 2020

VK Agarwal

### About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Zoology for the recommended National Education Policy 2020. It comprehensively covers theory and practical papers, namely, Diversity of Non-Chordates. The theory part of this book aptly discusses the importance of systematics, taxonomy and structural organisation of animals. The students will learn the organisation, complexity and characteristic features of non-chordates and familiarise them with the morphology and anatomy of representatives of various animal phyla.

Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures.

### Key Features

- More than 250 well-labelled diagrams have been provided for easy understanding of the concepts
- Boxed items throughout the text providing information on intricate terms and topics
- Engaging chapter-end exercises have been provided for practice
- Collection of experiments to stimulate interest and aid in learning and memorizing the practical aspect of the subject

**ISBN: 9789358700114 | Price: ₹ 599 | Pages: 656 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Theory

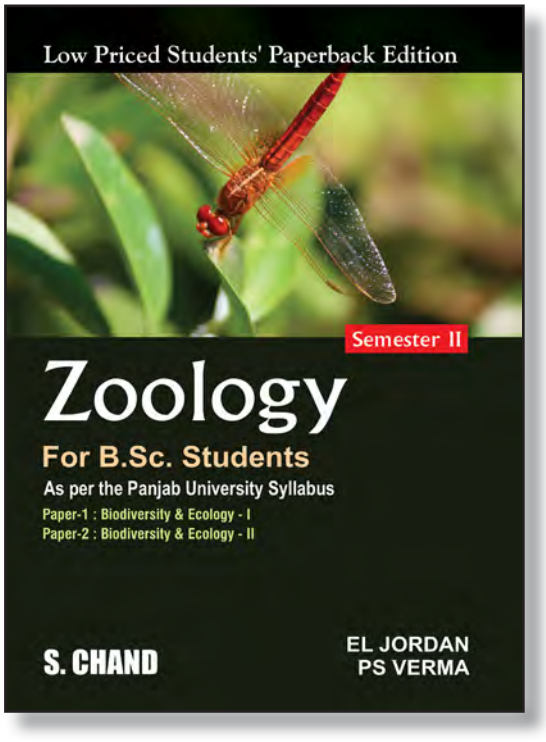
1: Introduction
2. Protozoa: Characters, Classification and Types
3. Paramecium (Phylum Protozoa)
4. Plasmodium (Malaria Parasite) (Phylum Protozoa)
5. Leishmania
6. Phylum Porifera: Characters, Classification and Types
7. Scypha (Sycon)
8. Canal System of Porifera
9. Skeleton (Spicules) of Porifera
10. Reproduction in Porifera
11. Phylum Cnidaria (Coelenterata): Characters, Classification and Types
12. Obelia (Phylum Cnidaria)
13. Polymorphism in Cnidaria
14. Corals and Coral Reefs Formation
15. Phylum Ctenophora
16. Phylum Platyhelminthes: Characters, Classification and Types
17. Fasciola hepatica (Liver Fluke)
18. Aschelminthes (Ascaris)
19. Wuchereria bancrofti (Filaria)
20. Parasitic Adaptations in Platyhelminthes (Flatworms) and Nematodes
21. Phylum Annelida (Characters, Classification and Types)
22. Nereis (Neanthes)
23. Pheretima (Earthworm)
24. Hirudinaria granulosa (Indian Cattle Leech)
25. Phylum Arthropoda (General Features and Outline Classification)
26. Palaemon (Macrobrachium) (Prawn)
27. Certain General Topics of Arthropoda
28. Phylum Mollusca (Characters, Classification and Types)
29. Pila globosa (The Apple Snail) (Phylum Mollusca)
30. Unio (Lamellidens) (Phylum Mollusca)
31. Torsion and Detorsion in Gastropods
32. Phylum Echinodermata (Characters, Classification and Types)
33. Asterias (Starfish or Sea Star)

Practical

1: Introduction to the Laboratory
2. Phylum: Protozoa
3. Phylum: Porifera
4. Phylum: Coelenterata
5. Ctenophora
6. Phylum: Platyhelminthes
7. Phylum: Aschelminthes
8. Phylum: Annelida
9. Phylum: Arthropoda
10. Phylum: Mollusca
11. Hemichordata

Viva Voce

Dr V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.




# Zoology for B.Sc. Students Semester II for the Panjab University

EL Jordan & PS Verma

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Zoology for the Panjab University, Chandigarh. Maintaining the traditional approach to the subject, this textbook not only provides strong conceptual understanding, but also helps in developing scientific outlook of the student. It comprehensively covers two papers, namely, Paper-I: Biodiversity & Ecology - I and Paper-II: Biodiversity & Ecology - II. The first part of the book discusses phylum Arthropoda with a detailed case study of periplaneta. Further, it explains social organization in insects and economically important insects. It also discusses the components and dynamics of ecosystem. Second part of the book provides a detail account of phylum Mollusca along with its the general introduction and case studies. Furthermore, it elucidates natural resources like renewable and nonrenewable natural resources and their conservations. This book also discusses the wildlife conservation including national park, sanctuary and IUCN red list.

## Key Features

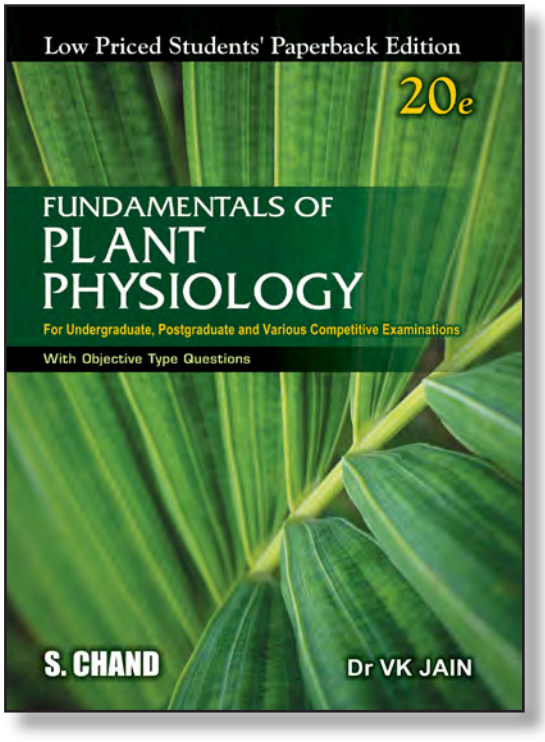
- Relevant and well-labelled diagrams have been provided for easy understanding of the concepts
- Engaging chapter-end exercises have been provided for practice
- Phylum Arthropoda and phylum Mollusca along with their examples have been discussed in detail

**ISBN: 9789355016942 | Price: ₹ 450 | Pages: 504 | Size: 6.5" X 9.25" (Paperback)**

## Contents

PAPER I: BIODIVERSITY & ECOLOGY - I
1: Arthropoda General Account
2: Periplaneta - A Detailed Case Study
3: Social Organization in Insects: Case Studies
4: Case Studies of Economically Important Insects
5: Prawn (Palaemon)
6: Life Cycle of Anopheles and Culex
7: Case Studies of Arthropods
8: Ecology and Ecosystem
9: Components and Dynamics of Ecosystem
10: Abiotic Factors: Temperature, Light and Soil
11: Biogeochemical Cycles
12: Ecological Adaptations
13: Population Ecology
PAPER II: BIODIVERSITY & ECOLOGY - II
14: General Introduction of Mollusca
15: Pila (Apple Snail)
16: Case Studies of Molluscs
17: General Introduction of Echinodermata
18: Asterias
19: Balanoglossus
20: Case Studies of Echinoderms
21: Intraspecific and Interspecific Interactions
22: Community Ecology: Characteristics, Niche and Succession
23: Natural Resources
24: Environmental Pollution: Causes, Impact and Conservation
25: Wildlife Conservatio

**EL Jordan,** Formerly Head of Department - Zoology, Lucknow Christian College, Lucknow.
**PS Verma,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




# Fundamentals of Plant Physiology, 20e

## VK Jain

### About the Book

This new edition of Fundamentals of Plant Physiology continues to provide a comprehensive coverage on the basic principles of the subject with its focus on the concepts of plant physiological form, functions and its behaviour. While this new edition includes several contemporary topics to keep students abreast with the new ongoing research in the field, it also includes 11 new experiments to further strengthen the scientific outlook of the reader. Besides fulfilling the needs of undergraduate students, this book would also be useful for postgraduate students as well as aspirants of various competitive examinations.

### New to this Edition:

- Discussion on important topics such as Reverse Osmosis, Beneficial Elements, Glycolipids, Steroids, Lipoproteins, Phycobilins and Chlororespiration.
- Exclusive discussion on Biosynthesis of Chlorophyll-a in Chapter 11 on Photosynthesis with diagrammatic representation of the numbering of C-atoms in structure of Chlorophyll-a as per IUPAC/IUBMB nomenclature.
- Inclusion of Aphid Stylet Technique and its role in measuring phloem transport rates in Chapter 15 on Translocation of Organic Solutes.
- Comprehensive coverage on Redox Loop (Q-cycle) in complex III of mitochondrial electron transport chain in Chapter 16 on Respiration. Also covers modern view of Peter Mitchell's Chemiosmotic theory for oxidative phosphorylation in mitochondria and Racker & Stoeckenius Reconstitution Experiment.
- Expanded coverage on Florigen in light of recent research in Chapter 18 on Photoperiodism. Also includes the ABC Model of Floral Development presenting the three classes under which homeotic genes for floral development are grouped.
- Discussion on Molecular Mechanism of Vernalization in Chapter 19 and Molecular Mechanism of Circadian Rhythm in Chapter 22.

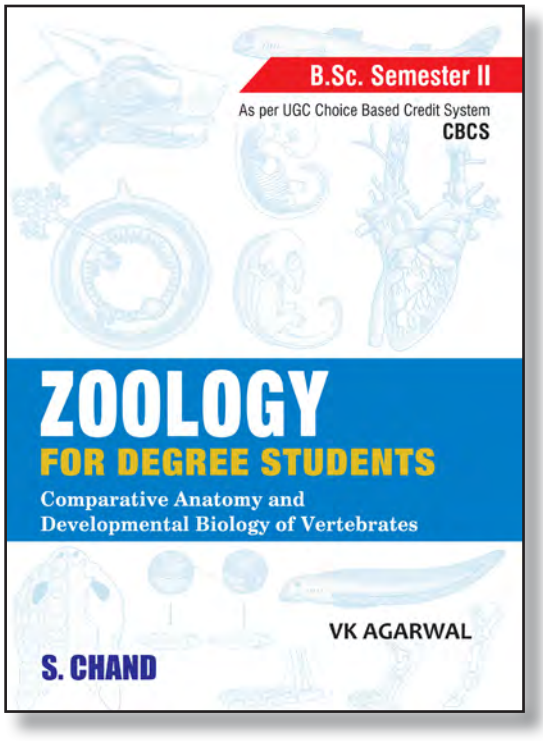
**ISBN: 9789355011459 | Price: ₹ 650 | Pages: 808 | Size: 6.75" X 9.5" (Paperback)**

### Contents

1. The Plant Cell
2. Water, Solutions, Suspensions and Colloidal Systems
3. Diffusion, Osmosis and Imbibition
4. Absorption of Water
5. Transpiration and Guttation
6. Ascent of Sap
7. Absorption of Mineral Salts
8. Mineral Nutrition of Plants
9. Nitrogen and Sulfur Metabolism
10. Enzymes
11. Photosynthesis
12. Special Methods of Nutrition
13. Carbohydrate Metabolism
14. Lipid (Fat) Metabolism
15. Translocation of Organic Solutes
16. Respiration
17. Growth and Growth Hormones
18. Photoperiodism
19. Vernalization
20. Germination and Dormancy of Seeds and Buds
21. Plant Movements
22. Circadian Rhythms in Plants
23. Stress Physiology
24. Secondary Metabolites
25. Photomorphogenesis
26. Bioenergetics

- *Appendices*
- *References (Bibliography)*
- *Glossary*
- *Index*

**V K Jain,** Formerly Head of Department - Botany, Multanimal Modi (Postgraduate) College, Modinagar, Uttar Pradesh.




# Zoology for Degree Students (B.Sc. Programme)-Semester II (As per UGC CBCS)

VK Agarwal

## About the Book

This textbook has been designed to meet the needs of B.Sc. (Programme) Second Semester students of Zoology as per the UGC Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Comparative Anatomy and Developmental Biology of Vertebrates. This textbook is profusely illustrated with over 250 well-labelled diagrams, not only to supplement the descriptions, but also for sound understanding of the concepts.

## Key Features

- Extensive coverage of comparative anatomy of vertebrates with an emphasis on evolutionary origin, embryological development, phylogeny and functional utility of various organ systems
- Detailed discussion on history and branches of developmental biology of vertebrates. Also discusses importance of cleavage, morulation and blastulation
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end questions to enhance and strengthen learning of the students

**ISBN: 9789355011565 | Price: ₹ 595 | Pages: 600 | Size: 6.5" X 9.25"**

## Contents

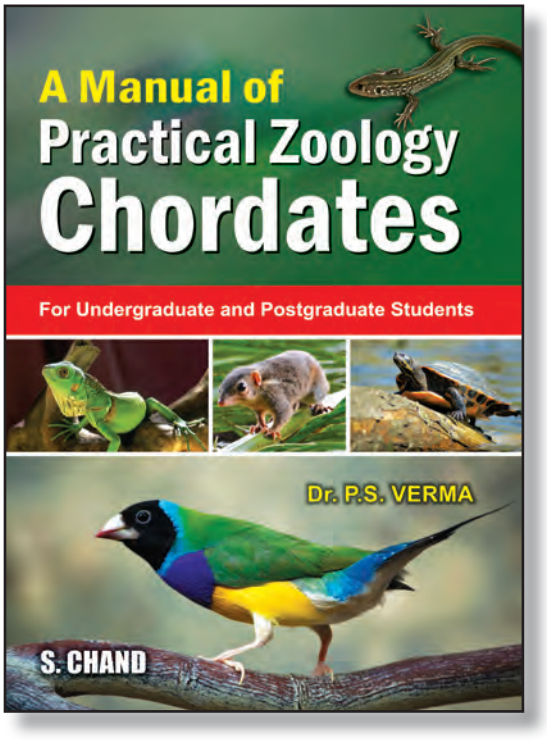
PART I: COMPARATIVE ANATOMY OF VERTEBRATES

1. Comparative Vertebrate Anatomy - Definition, Historical Background and Concepts
2. Integumentary System
3. Skeletal System
4. Digestive System (Alimentary Canal, Associated Glands and Dentition)
5. Respiratory System
6. Circulatory System
7. Urinogenital System
8. Nervous System
9. Sense Organs
10. Muscular System

PART II: DEVELOPMENTAL BIOLOGY OF VERTEBRATES

11. Introduction - Definitions, History and Branches
12. Gametogenesis I: Spermatogenesis
13. Gametogenesis II: Oogenesis, Semination and Ovulation
14. Fertilization
15. Cleavage, Morulation and Blastulation
16. Fate Maps and Cell Lineage
17. Gastrulation (Morphogenetic Movements)
18. Neurulation, Pharyngula, Fate of Germ Layers and Neural Crest Cells
19. Development of Frog
20. Early Development of Human Beings and Implantation
21. Placentation
22. Metamorphosis in Frog
23. Gene Action in Development (Gene Activation)
24. Specification and Commitment (or Determination)
25. Organizers and Induction

VK Agarwal MSc, PhD, Former Head of the Zoology Department, Meerut College, Meerut, Uttar Pradesh




# A Manual of Practical Zoology: Chordates

PS Verma

## About the Book

The book is a concise and practical guide for students of Zoology. Comprising seven parts, the book commences with underpinnings for laboratory work and proceeds to detail on microscopes, laboratory reagents, dissections, preparation of permanent slides, museums, mountings and so on, providing a comprehensive treatment of the subject.

## Key Features

- Inclusion of a new chapter on Skeleton of Scoliodon
- Addition of new microscopic slides and embryological slides in respective chapters
- Over 500 figures to facilitate understanding

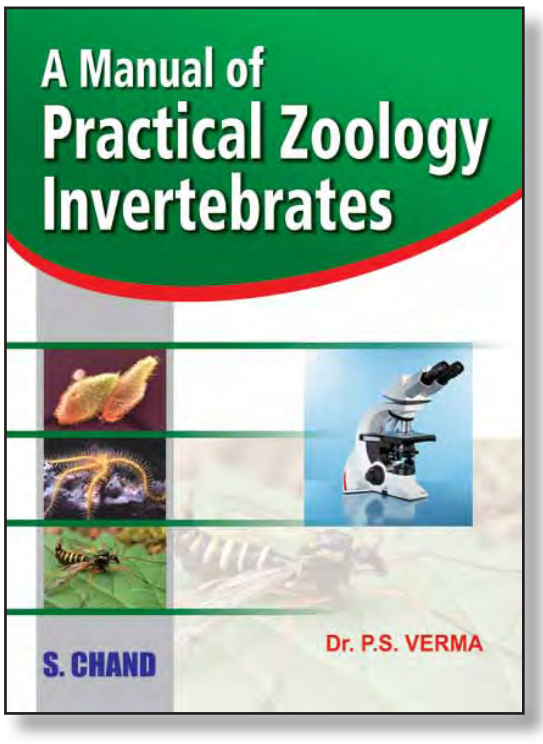
**ISBN: 9788121908306 | Code: 1003B00033 | Price: ₹ 550 | Pages: 528 | Size: 6.75" X 9.5"**

## Contents

1. General Directions for Laboratory Work
2. Microscopes
3. Preparation of Laboratory Reagents
4. Dissections
5. Preparation of Permanent Slides
6. Important Mountings
7. Study of Museum Specimens (Museology)
8. Phylum Chordata
9. Group-Protochordata
10. Class-Cyclostomata
11. Superclass-Pisces
12. Class Amphibia
13. Class-Reptilia
14. Class-Aves (Birds)
15. Class Mammalia
16. Slides of Protochordata
17. Slides of Cylostomata
18. Slides of Fishes
19. Slides of Amphibia
20. Slides of Reptilia
21. Slides of Birds
22. Slides of Mammalia
23. Histology of Some Vertebrate Tissues
24. Embryological Slides
25. Osteology
26. Skeleton of Scoliodon
27. Skeleton of Frog
28. Skeleton of Varanus
29. Skeleton of Fowl
30. Skeleton of Rabbit
31. Skeleton of Dog
32. List of Chemicals and Apparatus
33. Experimental Biochemistry and Physiology
34. Chromatography

**P S Verma,** Formerly Reader, Department of Zoology, Meerut College, Meerut.

**D K Maheshwari,** Department of Botany & Microbiology, Gurukul Kangri University, Haridwar.




# A Manual of Practical Zoology: Invertebrates

PS Verma

## About the Book

The book provides discussion on all aspects of Invertebrates as covered in Practical Zoology. Beginning with general techniques of preparation of cultures of Protozoa, microscopic slides and laboratory regents, it also covers in tabular and detailed form, recent classification of various invertebrate phyla with examples of each order or suborder. Wide coverage of each phylum, and diagrams of major and minor dissections make the book equally useful for both undergraduate and postgraduate students.

## Key Features

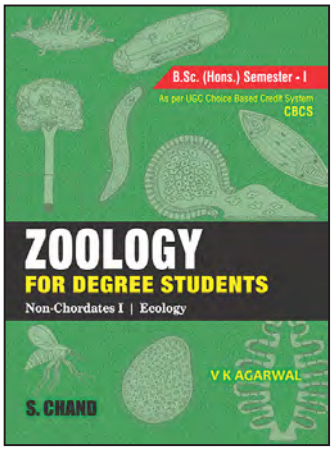
- Inclusion of new chapters on Cytological Preparations and Genetical Exercises
- Addition of new dissections, museum specimens and permanent slides in respective chapters
- Habits, habitat and distribution provided in description of animals to familiarize students with natural environment and way of living of animal
- Over 500 figures to facilitate understanding

**ISBN: 9788121908290 | Code: 1003B00032 | Price: ₹ 575 | Pages: 512 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. General Directions
2. Microscopes
3. Preparation of Laboratory Reagents
4. Culture Methods
5. Dissections
6. Preparation of Permanent Slides
7. Important Mountings
8. Phylum: Protozoa
9. Phylum: Porifera
10. Phylum: Coelenterata
11. Phylum: Ctenophora
12. Phylum: Platyhelminthes
13. Phylum: Aschelminthes
14. Phylum: Annelida
15. Phylum: Arthropoda
16. Phylum: Mollusca
17. Phylum: Echinodermata
18. Minor Phyla
19. Phylum: Hemichordata
20. Cytological Preparations
21. Genetical Exercises

**PS Verma,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




## Zoology for Degree Students, B.Sc. (Hons.) Semester - I

VK Agarwal

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. (Hons.) First Semester students of Zoology as per the UGC Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Acoelomate Non-Chordates along with Protista, and Ecology. This textbook is profusely illustrated with well-drawn labelled diagrams, not only to supplement the descriptions, but also for sound understanding of the concepts.

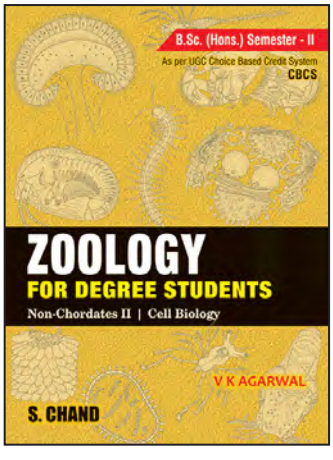
### Key Features

- Extensive coverage of Non-Chordates from Protista to Pseudocoelomata
- Exhaustive treatment of Minor Phyla (Rotifera, Sipuncula, Echiura, Ectoprocta and Brachiopoda)
- Discussion on current environmental issues such as Landscape Ecology, Agroecosystem, Ecological Footprints, Conservation of Wildlife, Global Warming, Pollution and many more
- More than 100 boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises having more than 2200 questions to enhance and strengthen learning of the students

**ISBN: 9789352534388 | Price: ₹ 695 | Pages: 944 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Non-Chordates I: Protista to Pseudocoelomates (CC-I): 1. Introduction, 2. Protozoa: Characters, Classification and Types, 3. *Euglena* (Phylum Protozoa), 4. *Amoeba* (Phylum Protozoa), 5. *Paramecium* (Phylum Protozoa), 6. *Plasmodium* (Malaria Parasite) (Phylum Protozoa), 7. *Entamoeba Histolytica* (Phylum Protozoa), 8. Locomotion in Protozoa, 9. Reproduction in Protozoa, 10. Protozoa and Disease, 11. Phylum Porifera: Characters, Classification and Types, 12. *Scypha* (*Sycon*) (Phylum Porifera), 13. Canal System in Sponges, 14. Skeleton of Sponges, 15. Affinities of Sponges (Porifera) and Origin of Metazoa, 16. Phylum Cnidaria (Coelenterata): Characters, Classification and Types, 17. *Obelia* (Phylum Cnidaria), 18. Polymorphism in Cnidaria, 19. Corals and Coral Reefs, 20. Phylum Ctenophora, 21. Phylum Platyhelminthes: Characters, Classification and Types, 22. *Fasciola Hepatica* (Liver Fluke) (Phylum Platyhelminthes), 23. *Taenia Solium* (Phylum Platyhelminthes), 24. Phylum Nematoda: Characters, Classification and Types, 25. *Ascaris* (Phylum Nematoda), 26. *Ancylostoma* (Phylum Nematoda), 27. *Wuchereria Bancrofti* (Filaria) (Phylum Nematoda), 28. Parasitic Adaptations in Platyhelminthes (Flatworms) and Nematodes, 29. Parasitic Nematodes of Humans and Plants, 30. Minor Phyla, Principles of Ecology (CC-II): 1. Definition and History of Ecology, 2. Autecology and Synecology, 3. Levels of Organisation, Hierarchy and Biosphere, 4. Environment: Atmosphere, Hydrosphers and Lithosphere, 5. Abiotic Environmental Factors, 6. Biotic Environmental Factors (Ecological Relationships), 7. Population (Population Ecology), 8. Community, Niche, Ecotone, Edge Effect, and Bioindicators, 9. Ecological Succession, 10. Ecosystem: Structure and Function, 11. Biogeochemical Cycles, 12. Aquatic Ecosystems: Freshwater Communities, 13. Aquatic Ecosystems: Marine Communities, 14. Terrestrial Ecosystems: Realms and Biomes (Forests), 15. Landscape Ecology, 16. Human Modified Ecosystems (Agroecosystems, Technoecosystems and Ecological Footprints), 17. Biodiversity, 18. Wildlife of India and Endangered Species, 19. Sanctuaries and National Parks of India, 20. Wildlife Conservation, 21. Pollution: Air Pollution, 22. Water Pollution, 23. Land Pollution and Noise Pollution, 24. Radioactive Pollution • *Index*




## Zoology for Degree Students, B.Sc. (Hons.) Semester - II

V K Agarwal

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. (Hons.) Second Semester students of Zoology as per the UGC Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Coelomate Non-Chordates and Cell Biology. This textbook is profusely illustrated with well-drawn labelled diagrams, flow charts and tables, not only to supplement the descriptions, but also for sound understanding of the concepts.

### Key Features

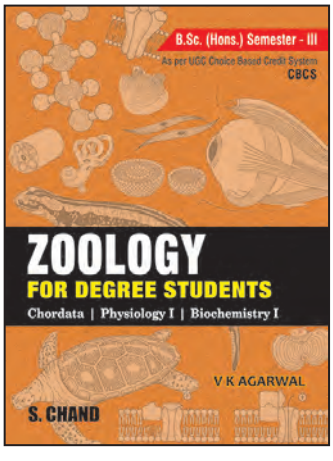
- Includes comparative Anatomy of Non-Chordates
- Discussion on important topics such as Cell Signalling, Intracellular Transport (Vesicular Trafficking), Motor Proteins, Cancer and many more
- Coverage on Energy Metabolism at the level of Chloroplasts and Mitochondria
- Close to 100 boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises having more than 1900 questions to enhance and strengthen learning of the students

**ISBN: 9789352534111 | Code: 9789352534111 | Price: ₹ 695 | Pages: 952 | Size: 6.75" X 9.5" (Paperback)**

## Contents

Non-Chordates II: Coelomates (CC–III): 1. Introduction to Coelomates (Cladistic Methods, Evolution of Metamerism and Coelom), 2. Phylum Annelida (Characters, Classification and Types), 3. *Nereis* (*Neanthes*) (Phylum Annelida), 4. *Hirudinaria Granulosa* (Indian Cattle Leech) (Phylum Annelida), 5. Excretion in Annelida; Trochophore Larva and Vermicomposting, 6. Phylum Arthropoda (Characters, Classification and Types), 7. *Palaemon* (*Macrobrachium*) (Prawn) (Phylum Arthropoda), 8. Scorpion (Phylum Arthropoda), 9. Zoological Importance of Limulus, 10. Certain General Topics of Arthropoda, 11. Invertebrate Hormones, 12. Insect Pest Management (Insect Control), 13. Phylum Onychophora and Peripatus, 14. Phylum Mollusca (Characters, Classification and Types), 15. *Pila Globosa* (The Apple Snail) (Phylum Mollusca), 16. *Unio* (Lamellidens ) (Phylum Mollusca), 17. Some General Topics of Mollusca (Respiration and Pearl Formation), 18. Torsion in Gastropods, 19. Phylum Echinodermata (Characters, Classification and Types), 20. *Asterias* (Starfish or Sea Star) (Phylum Echinodermata), 21. Some General Topics of Echinodermata, 22. Phylum Hemichordata (Characters, Classification and Types), 23. *Balanoglossus* (Phylum Hemichordata); Cell Biology (CC–IV): 1. Introduction, 2. Cell Biological Techniques, 3. Prokaryotic Cell and Eukaryotic, 4. Viruses, 5. Cytosol and Biomolecules, 6. Plasma Membrane and Cell Wall, 7. Cell Junctions, Cell Adhesion and the Extracellular Matrix (ECM), 8. Endoplasmic Reticulum (ER), 9. Golgi Apparatus, 10. Lysosomes, 11. Ribosomes, 12. Vesicular Traffic in the Secretory and Endocytic Pathway, 13. Cellular Energy Transductions (Role of Mitochondria and Chloroplasts), 14. Peroxisomes, 15. Cytoskeletal Systems and Cellular Movement, 16. Nucleus, Nucleopore and Nucleolus, 17. Chromosomes, 18. Cell Cycle and Mechanics of Cell Division, 19. Cell Signalling (Messengers, Receptors and Signal Transduction), 20. Cell Transformation and Cancer (Biology of Cancer) • *Index*

**V K Agarwal,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




# Zoology for Degree Students, B.Sc. (Hons.) Semester - III

V K Agarwal

As Per CBCS

## About the Book

This textbook has been designed to meet the needs of B.Sc. (Hons.) Third Semester students of Zoology as per the UGC Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Chordata, Physiology and Biochemistry. This textbook is profusely illustrated with well-drawn labelled diagrams, not only to supplement the descriptions, but also for sound understanding of the concepts.

## Key Features

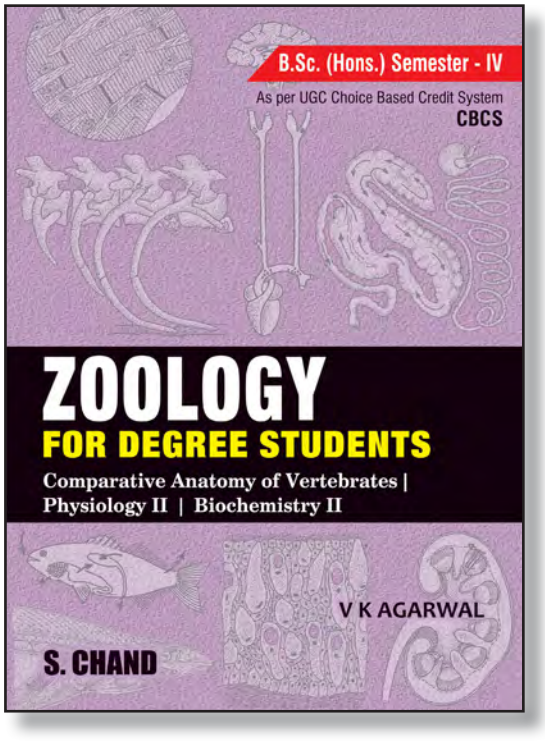
- Extensive Extensive coverage of physiology on vision, hearing, sex and hormones
- Boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises, having more than 1700 questions to enhance and strengthen learning of the students

**ISBN: 9789352533114 | Price: ₹ 725 | Pages: 976 | Size: 6.75" X 9.5" (Paperback)**

## Contents

Diversity of Chordata: 1. Phylum Chordata, 2. Phylum Hemichordata (General Characters, Classification and Types), 3. *Balanoglossus* (Phylum Hemichordata), 4. *Herdmania*, 5. Urochordata: General Characters, Classification and Types, 6. *Branchiostoma* (Amphioxus or Lancelet), 7. Cephalochordata: General Characters, Classification and Types, 8. Subphylum Vertebrata and Class Cyclostomata, 9. Superclass Pisces (Fishes): General Characters, Classification and Types, 10. Class Amphibia: General Characters, Classification and Types, 11. Amphibia (Origin, Affinities, Parental Care and Heterochrony: Axolotl, Neoteny, etc.), 12. Class Reptilia: General Characters, Classification and Types, 13. Poisonous and Non-Poisonous Snakes; Biting Apparatus and Biting Mechanism, 14. The Pigeon: Columba Livia, 15. Skeleton of Bird (The Fowl), 16. Class Aves (The Birds): General Characters, Classification and Types, 17. Class Mammalia: General Characters, Classification and Types, 18. Dentition of Mammals, 19. Zoogeography, Physiology: Controlling and Coordinating Systems: 1. Tissues and Glands, 2. Bone and Cartilage, 3. Physiology of Transmission of Nerve Impulse, 4. Physiology of Vision (Photoreception), 5. Physiology of Hearing, 6. Physiology of Muscle Contraction, 7. Sexual Reproduction (Histophysiology), 8. Endocrine Glands, 9. Homeostasis and Thermoregulation, Fundamentals of Biochemistry: 1. Introduction to Biochemistry, 2. Carbohydrates, 3. Lipids, 4. Amino Acids, Peptides and Proteins, 5. Nucleic Acids, 6. Enzymes • *Index*

**V K Agarwal,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




# Zoology for Degree Students B.Sc. (Hons.) Semester IV

V K Agarwal

As Per CBCS

## About the Book

This textbook has been designed to meet the needs of B.Sc. (Hons.) Fourth Semester students of Zoology as per the UGC Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Comparative Anatomy of Vertebrates, Animal Physiology: Life Sustaining Systems and Biochemistry of Metabolic Processes. This textbook is profusely illustrated with over 550 well-labelled diagrams, not only to supplement the descriptions, but also for sound understanding of the concepts.

## Key Features

- Extensive coverage of comparative anatomy of vertebrates with an emphasis on evolutionary origin, embryological development, phylogeny and functional utility of various organ systems.
- Detailed discussion on physiology of digestion, respiration, excretion, osmoregulation, blood and heart. Also discusses foregut and hindgut fermentation.
- Comprehensive coverage of metabolism of carbohydrates, lipids, proteins and oxidative phosphorylation (energy metabolism).
- Over 100 boxed items throughout the text providing information on intricate terms or topics.
- Engaging chapter-end exercises having more than 800 questions to enhance and strengthen learning of the students

**ISBN: 9789352534104 | Code: 9789352534104 | Price: ₹ 650 | Pages: 752 | Size: 6.75" X 9.5" (Paperback)**

## Contents

CC VIII: Comparative Anatomy of Vertebrates

1. Definition, Historical Background and Concepts of Comparative Vertebrate Anatomy
2. Integumentary System
3. Skeletal System
4. Digestive System (Alimentary Canal, Associated Glands and Dentition)
5. Respiratory System
6. Circulatory System
7. Urinogenital System
8. Nervous System
9. Sense Organs

CC IX: Animal Physiology–Life Sustaining Systems

1. Definition, History and Branches of Physiology
2. Physiology of Digestion
3. Physiology of Respiration
4. Renal Physiology (Excretion)
5. Osmoregulation and Regulation of Acid-Base Balance
6. Blood
7. Physiology of Heart

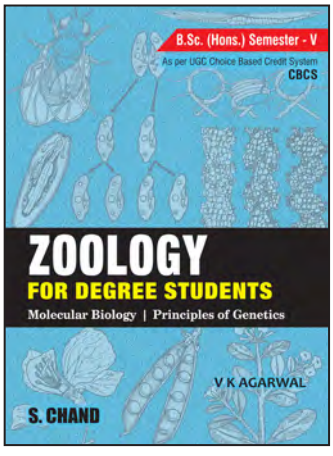
CCX: Biochemistry of Metabolic Processes

1. Overview of Metabolism
2. Carbohydrate Metabolism
3. Lipid Metabolism
4. Protein Metabolism
5. Oxidative Phosphorylation

- Index

Dr V K Agarwal, MSc; PhD, has a rich teaching experience of more than four decades at Meerut College, Meerut. He has taught subjects such as Cell Biology, Genetics, Molecular Biology, Chordate Embryology (Developmental Biology), Invertebrate Zoology, Chordate Zoology, Evolution, Ecology and Animal Behaviour (Ethology) to undergraduate and postgraduate students.

Dr Agarwal has to his credit the authorship of several widely acclaimed textbooks such as Cytology, Cell Biology, Genetics, Chordate Embryology (Developmental Biology), Ecology (Environmental Biology), Ethology (Animal Behaviour), Zoology for Degree Students –BSc First Year (includes Invertebrate Zoology), Zoology for Degree Students – Semesters I, II, III and V, Molecular Biology, Genetic Engineering, CBSE–IX Biology, and a multicoloured edition of Cell Biology, Genetics, Molecular Biology, Evolution and Ecology. He has also published a few research papers on Insect Physiology and Toxicology.




## Zoology for Degree Students, B.Sc. (Hons.) Semester - V

As Per CBCS

V K Agarwal

### About the Book

This textbook has been designed to meet the needs of B.Sc. (Hons.) Fifth Semester students of Zoology as per the UGC Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Molecular Biology and Genetics. This textbook is profusely illustrated with well-drawn labelled diagrams, flow charts and tables, not only to supplement the descriptions, but also for sound understanding of the concepts.

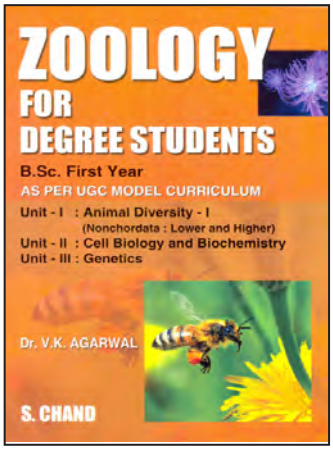
### Key Features

- Discussion on contemporary topics in molecular biology such as regulatory RNAs, DNA repair mechanisms and transcriptional regulation of eukaryotic genes
- Discussion on contemporary topics in genetics such as microbial genetics, plasmids, IS elements, transposons and retroelements, phenotypic plasticity and genomic imprinting due to DNA methylation
- Close to 75 boxed items throughout the text providing information on intricate terms or topics
- Engaging chapter-end exercises having more than 1200 questions to enhance & strengthen learning of the students

**ISBN: 9789352535255 | Price: ₹ 650 | Pages: 696 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Molecular Biology (CC-XI): 1. Definition, History and Techniques of Molecular Biology, 2. Organisms used in Molecular Biology, 3. Identification of the Genetic Materials, 4. Chemical Nature of Genetic Materials (DNA and RNA) (Watson and Crick Model of DNA), 5. Organization of Genetic Material (DNA of Nucleosomes, Centromeres and Telomers), 6. Split Genes, 7. DNA Replication, 8. Transcription, 9. Messenger RNA (Coding RNA) (MRNA: Modification, Processing, Editing, and Splicing), 10. Ribosomal RNA (rRNA) and Transfer RNA (tRNA), 11. Genetic Code, 12. Translation: Protein Synthesis, 13. Post-Translational Processing of Proteins, 14. Multigene Families (Globin Genes, Actin Genes, Histone Gene Clusters and tRNA Genes), 15. Regulation of Gene Action in Bacteria and Viruses, 16. Regulation of Gene Action in Eukaryotes, 17. DNA Repair Mechanisms, 18. Regulatory RNAs: Riboswitches, RNA Interference (RNAi), siRNAs and miRNAs, Principles of Genetics (CC-XII): 1. Introduction, 2. Laws of Heredity (Mendelian Laws of Inheritance), 3. Dominance, Incomplete Dominance and Codominance, 4. Multiple Alleles, 5. Lethal Genes and Pleiotropic Genes, 6. Interactions of Genes (Factor Hypothesis), 7. Sex Linkage (Sex-Linked Inheritance), 8. Linkage, 9. Crossing Over, 10. Genetic and Physical Mapping of Chromosomes, 11. Chromosomal Mutations, 12. Alteration in the Genetic Material (Point Mutation), 13. The Gene (Fine Structure of Gene), 14. Sex Chromosomes, Sex Determination and Sex Differentiation, 15. Non-Chromosomal Inheritance (Cytoplasmic Inheritance), 16. Polygenic Inheritance, 17. Sexuality and Recombination in Bacteria and Viruses (Microbial Genetics), 18. Plasmids, is Elements, Transposons and Retroelements




## Zoology for Degree Students, B.Sc. First Year

V K Agarwal

### About the Book

The textbook covers four branches of Zoology- Lower Chordata, Higher Non-chordata, Cell Biology and Genetics. Concepts are presented in lucid and comprehensive manner. It is profusely illustrated with diagrams, not only to supplement the description, but also to embellish sound understanding of the concepts. The textbook would be extremely useful for students pursuing BSc First Year.

### Key Features

- Rich pedagogy comprising boxed items with additional information on relevant topics, wide spectrum of questions such as long, short and very short questions, multiple choice questions, fill in the blanks and true and false questions for quick review of concepts
- Abundance of diagrams throughout 90 chapters to present text in an Illustrative manner

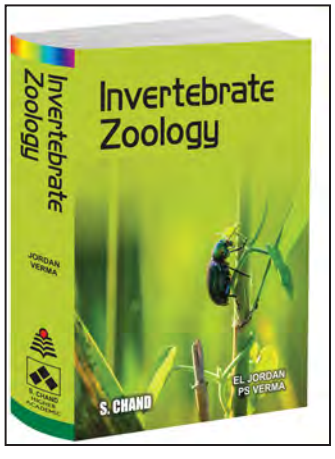
**ISBN: 9788121935500 | Code: 1003B00392 | Price: ₹ 1250 | Pages: 1,536 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Unit-I: Animal Diversity–I (Nonchordata: Lower & Higher): *(Part A): Lower Nonchordates (Invertebrates):* 1. Introduction, 2. Protozoa: Characters, Classification and Types, 3. *Euglena*, 4. *Monocystis*, 5. *Trypanosoma*, 6. *Paramecium*, 7. Locomotion in Protozoa, 8. Nutrition in Protozoa, 9. Reproduction in Protozoa, 10. Protozoa and Diseases, 11. Phylum Porifera Characters, Classification and Types, 12. *Leucosolenia* (Phylum Porifera), 13. *Scypha* (Sycon) (Phylum Porifera), 14. Canal System in Sponges, 15. Skeleton of Sponges, 16. Affinities of Sponges, 17. Phylum Cnidaria (Characters, Classification and Types), 18. *Obelia* (Phylum Cnidaria), 19. *Aurelia* (Phylum Cnidaria), 20. Polymorphism in Cnidaria, 21. Colony Formation in Cnidaria, 22. Corals and Coral

Reefs, 23. Phylum Platyhelminthes, 24. *Dugesia tigrina* (Phylum Platyhelminthes), 25. *Fasciola hepatica* (Liver fluke) (Phylum Platyhelminthes), 26. *Taenia solium* (Liver Fluke) (Phylum Platyhelminthes), 27. Parasitic Adaptations in Platyhelminthes (Flatworms), 28. Phylum Nematoda (Characters, Classification and Types), 29. *Ancylostoma* (Phylum Nematoda), 30. *Ascaris* (Phylum Nematoda), 31. Parasitic Nematodes of Humans and Plants, 32. Minor Phyla, *(Part B): Higher Nonchordata:* 33. Phylum Annelida (Characters, Classification and Types), 34. *Nereis* (Neanthes) (Phylum Annelida), 35. *Hirudinaria granulosa* (Indian cattle leech), 36. Metamerism and Coelom in Annelida, 37. Trochophore Larva and its Significance, 38. Phylum Arthropoda, 39. *Palaemon* (Macrobrachium), 40. Scorpion (Phylum Arthropoda), 41. Zoological Importance of Limulus, 42. Economic Importance of Insect, 43. Insect Pest Management (Insect Control), 44. Phylum Mollusca, 45. *Pila globosa* (The Apple Snail) (Phylum Mollusca), 46. *Unio* (*Lamellidens*) (Phylum Mollusca), 47. Torsion in Gastropods, 48. Phylum Onychophora and Peripatus, 49. Phylum Echinodermata, 50. *Asterias* (Starfish or Sea star), 51. Phylum Hemichordata, 52. *Balanoglossus* (Phylum Hemichordata), Unit-II: Cell Biology & Biochemistry: 53. Introduction, 54. Cell Biological Techniques, 55. Prokaryotic Cell and Eukaryotic Cell, 56. Viruses, 57. The Macro molecules of the Cell (Cytosol and Biomolecules), 58. Cellular Energy Transductions, 59. Plasma Membrane and Cell wall, 60. Cell Junctions, Cell Adhesion and the Extracellular Matrix (ECM), 61. Cell Signaling (Messengers, Receptors and Signal Transduction), 62. Cytoskeletal System and Cellular Movement, 63. Endoplasmic Reticulum (ER), 64. Golgi Apparatus, 65. Lysosomes, 66. Peroxisomes, 67. Ribosomes, 68. Vesicular Traffic in the Secretory and Endocytic Pathway, 69. Nucleus, Nucleopore and Nucleolus, 70. Chromosomes, 71. Cell Cycle and Mechanics of Cell Division, 72. Cell Transformation and Cancer (Biology of Cancer), Unit-III: Genetics: 73. Introduction, 74. Laws of Heredity (Mendelian Laws of Inheritance), 75. Dominance, Incomplete Dominance and Codominance, 76. Linkage, 77. Crossing Over, 78. Linkage Maps, 79. Varieties of Gene Expressions: I Interactions of Genes (Factor Hypothesis), 80. Varieties of Gene Expressions: II Polygenic Inheritance, Lethal Genes, and Pleiotropic Gene, 81. Varieties of Gene Expressions: III Multiple Alleles, 82. The Gene(Fine Structure of Gene), 83. Sex Chromosomes, Sex Determination and Sex Differentiation, 84. Sex Linkage(Sex-Linked Inheritance), 85. Non–Chromosomal Inheritance (Cytoplasmic Inheritance), 86. Chromosomal Mutation, 87. Human Genetics, 88. Population Genetics and Evolutionary Genetics, 89. Immunogene tics and Genetics of Cancer, 90. Eugenics, Euthenics and Euphenics

**V K Agarwal,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




## Invertebrate Zoology

E L Jordan & P S Verma

Multicolour Edition

### About the Book

A best seller for more than three decades, this textbook encapsulates the recent research and developments in the field. It discusses several animal types from each major phylum keeping in view not only the anatomy and physiology of animals, but also the relationship of structure to functional requirements of the environment. Comprehensively written, this textbook would be extremely useful for students of Zoology.

### Key Features

- Updated content in the light of recent researches in the field
- Nearly 900 well-labelled diagrams for easy understanding
- Close to 1200 long/short/very short type questions and 2000+ MCQs to test understanding of the concepts.

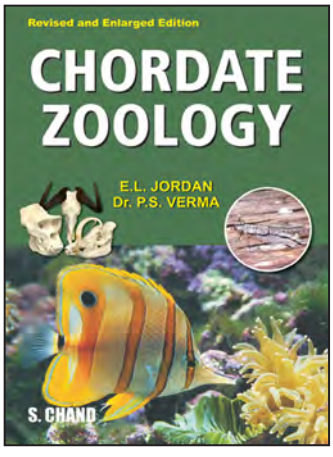
**ISBN: 9789355011954 | Price: ₹ 1495 | Pages: 1,152 | Size: 6.75" X 9.5" (Hardback)**

### Contents

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**E L Jordan,** Formerly Head of Department - Zoology, Lucknow Christian College, Lucknow.
**P S Verma,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




## Chordate Zoology

E L Jordan & P S Verma

### About the Book

A national best seller for more than four decades, this book is a comprehensive text on the basic principles of Zoology. It takes into account morphology, physiology, histology, embryology, ecology, palaeontology and evolution of chordates. With its simple language, crystal clear explanations and systematic presentation, this book would be extremely useful for the undergraduate students of Zoology.

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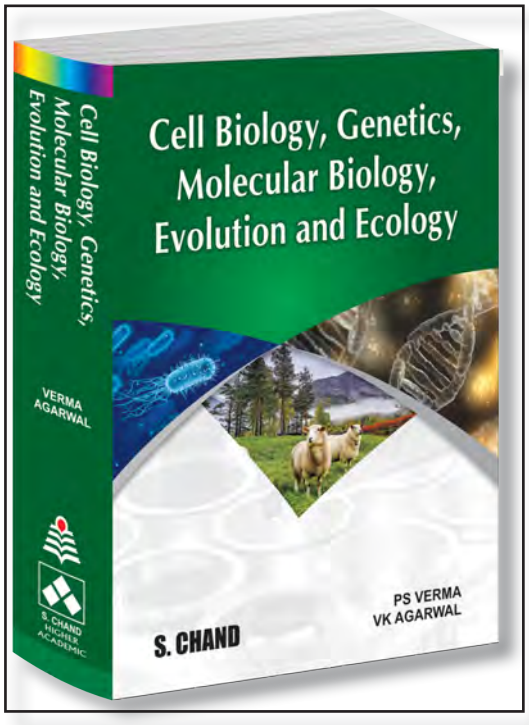
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1. Phylum Chordata: An Introduction, 2. Type 1. Balanoglossus (A Tongue Worm), 3. Subphylum 1. Hemichordata: General Characters; Classification and Representative Types, 4. Type 2. Herdmania (A Sea Squirt), 5. Subphylum 2. Urochordata: General Characters, Classification and Representative Types, 6. Type 3. Branchiostoma (= Amphioxus) The Lancelet, 7. Subphylum 3. Cephalochordata: General Characters, Primitive, Degenerate and Specialised Characters and Affinities, 8. Protochordata: General and Comparative, 9. Subphylum 4. Vertebrata: General Characters, Origin and Ancestry of Vertebrates, 10. Class 1. Ostracodermi (Extinct): General Characters, Classification and Representative Types, 11. Type 4. *Petromyzon* (The Lamprey), 12. Class 2. Cyclostomata: General Characters, Classification and Representative Types, 13. Class 3. Placodermi (Extinct): General Characters and Classification, 14. Type 5. *Scoliodon*: A Cartilaginous Fish (The Dogfish), 15. Type 6. *Labeo rohita*: Rohu (A Bony Fish), 16. Superclass Pisces: General Characters, Classification and Representative Types, 17. Superclass Pisces and Fish: General Account, 18. Type 7. *Rana tigrina* (Common Indian Bull Frog), 19. Class 6. Amphibia: General Characters, Classification and Representative Types, 20. Amphibia: General Account, 21. Type 8. *Uromastix hardwickii* (The Spiny-Tailed Lizard), 22. Type 9. *Calotes versicolor* (The Garden Lizard), 23. Snakes: General Account, 24. Class 7. Reptilia: General Characters, Classification and Representative Types, 25. Reptilia: General Account, 26. Type 10. *Columba livia* (The Common Rock Pigeon), 27. Class 8. Aves (The Birds): General Characters, Classification, and Representative Types, 28. Aves (Birds): General Account, 29. Type 11. *Oryctolagus* (The Rabbit), 30. Class 9. Mammalia: General Characters, Classification and Representative Types, 31. Subclass Prototheria (Order Monotremata), 32. Infraclass Metatheria (Order Marsupialia), 33. Mammalia: General Account, 34. Introduction to Vertebrate Embryology, 35. Development of *Herdmania*, 36. Development of *Branchiostoma* (*Amphioxus*), 37. Development of Frog, 38. Development of Chick (Fowl), 39. Development of Rabbit, 40. Placenta and Placentation in Mammals, 41. Integument and its Derivatives in Vertebrates, 42. Endoskeleton in Vertebrates, 43. Coelom and Digestive System in Vertebrates, 44. Respiratory System in Vertebrates, 45. Circulatory System in Vertebrates, 46. Nervous System in Vertebrates, 47. Receptor Organs in Vertebrates, 48. Urinogenital Organs in Vertebrates, 49. Endocrine System in Vertebrates, 50. Some Comparative Charts of Vertebrate Animal Types, 51. Wildlife in India • *Glossary* • *Selected References* • *Index*

**E L Jordan,** Formerly Head of Department - Zoology, Lucknow Christian College, Lucknow.
**P S Verma,** Formerly Reader, Department of Zoology, Meerut College, Meerut.




# Cell Biology, Genetics, Molecular Biology, Evolution and Ecology

P S Verma & V K Agarwal

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11. Plastids (Chloroplasts, Photosynthesis and Vacuoles)
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13. Chromosomes
14. Ribosomes
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11. Genetic Recombination and Gene Transfer (Bacterial Conjugation, Transformation, Transduction, Episomes and Plasmids)

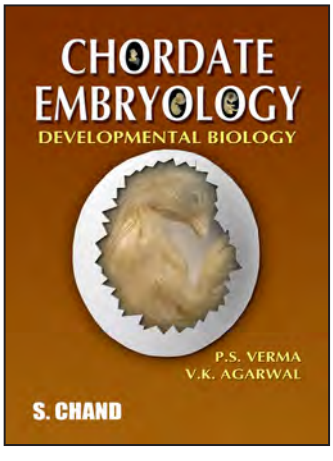
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12. Origin of Life

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## Chordate Embryology

P S Verma & V K Agarwal

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This textbook has been written to acquaint the students with the fundamentals of developmental biology. With an emphasis on morphological approach, this book also discusses a few aspects of cell biology, biochemistry and endocrinology at relevant places. In the revised edition, new chapters have been added to further strengthen and enhance the integrated spectrum of descriptive-morphological and experimental-physiological approach of the subject matter.

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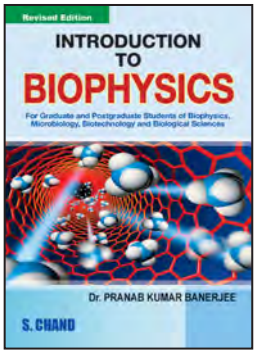
- Inclusion of new chapters such as Cellular Basis of Development; DNA, RNA and Protein Synthesis; Pathenogenesis; Nucleus and Cytoplasm in Development; Teratogenesis; Birth Control
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**V K Agarwal,** Formerly Reader, Department of Zoology, Meerut College, Meerut.



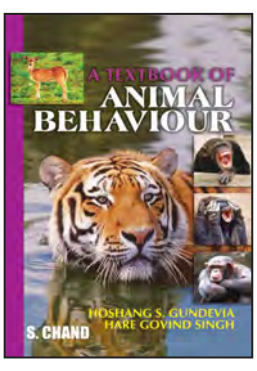

## Introduction to Biophysics

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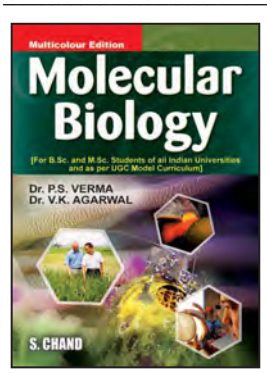

## A Textbook of Animal Behaviour

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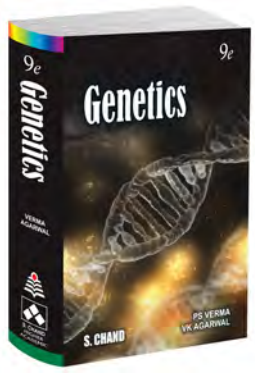

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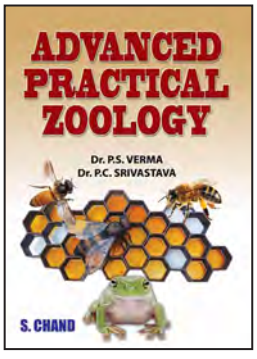
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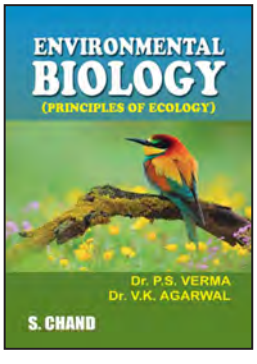

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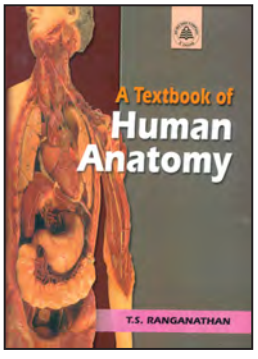

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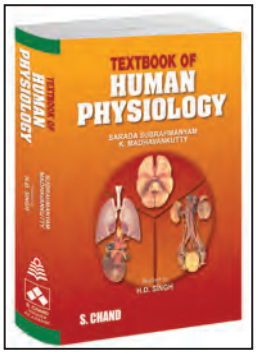

## A Textbook of Human Anatomy

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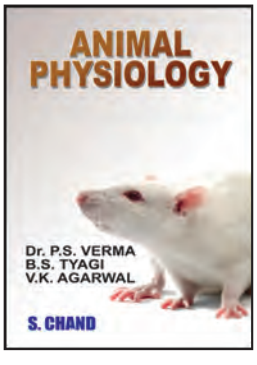
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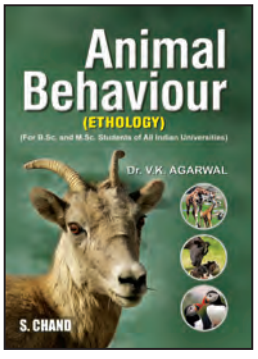

## Animal Physiology

P S Verma, B S Tyagi & V K Agarwal

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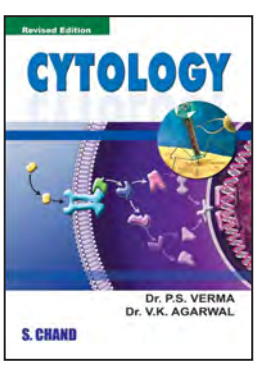

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V K Agarwal

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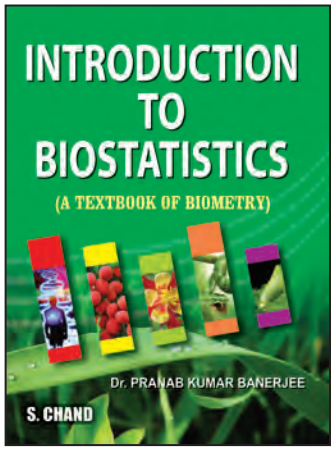

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## Introduction to Biostatistics

Pranab Kumar Banerjee

### About the Book

Biostatistics or Biometrics is the study of the application of statistical methodology to analyse biological variations, correlation and regression in biological measurement. The book presents biological phenomena and observations by means of statistical analysis in a lucid and simple manner. It caters to the requirements of undergraduate courses in biological sciences, Zoology, Botany, Physiology, Microbiology, Biotechnology and Cytogenetics, in particular. Postgraduate students and researchers will also find it useful.

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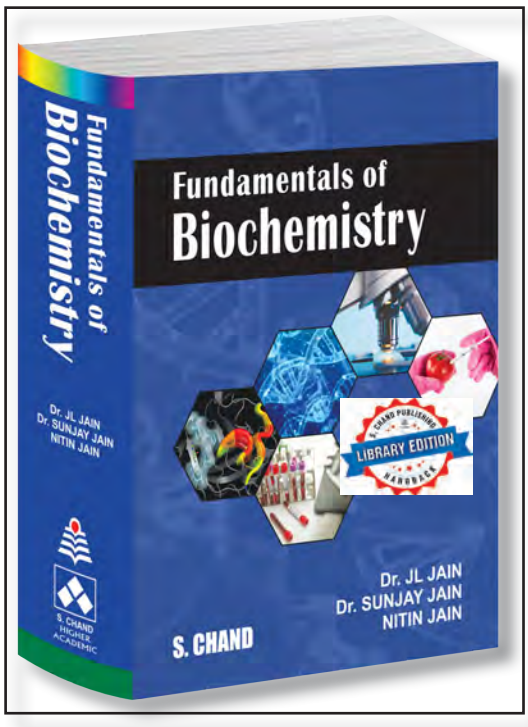
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**Pranab Kumar Banerjee,** Associate Professor, Department of Postgraduate Studies in Zoology, Serampore College, Serampore, Hooghly.




# Fundamentals of Biochemistry (Library Edition)

J L Jain & Sunjay Jain & Nitin Jain

## About the Book

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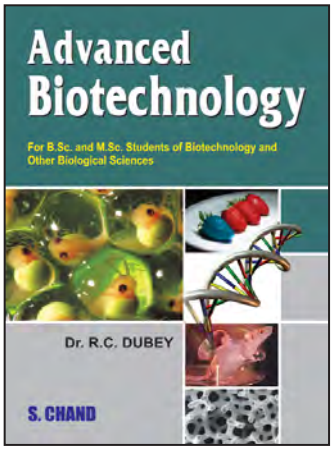
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6. Carbohydrates II – Properties of Monosaccharides
7. Carbohydrates III – Oligosaccharides
8. Carbohydrates IV – Polysaccharides
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10. Proteins II – Classification
11. Proteins III –General Properties
12. Lipids I – General Structure
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14. Lipids III – Properties of Fats and Oils
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R C Dubey

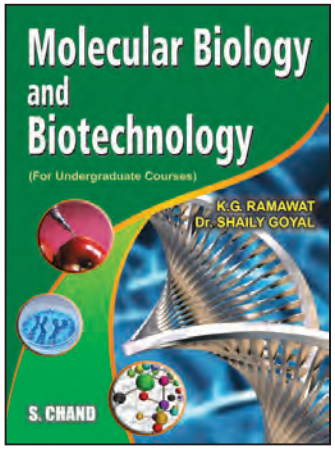
### About the Book

The book embodies 22 chapters covering various important disciplines of biotechnology, such as cell biology, molecular biology, molecular genetics, biophysical methods, genomics and proteomics, metagenomics, enzyme technology, immune-technology, transgenic plants and animals, industrial microbiology and environmental biotechnology. The book is illustrative. It is written in a simple language so that the students can easily grasp the matter. Possible questions have been written at the end of each chapter so that the matter can be thoroughly understood. Glossary of some important technical terms has been incorporated. Subject index has been given at the end of the book so that the students may search the related topics with complete case.

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## Molecular Biology and Biotechnology

K.G Ramawat & Dr. Shaily Goyal

### About the Book

- Molecular Biology and Biotechnology has become an integral part of undergraduate syllabi of all universities.
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- The book covers an amazing range of topics from the basics of molecular biology to transgenic and production of useful metabolics inlcuding types of RNA, inteins and protein folding, regulation of gene expression, enzymes of DNA synthesis, methods of DNA sequencing, tools of Molecular Biology and Biotechnology.
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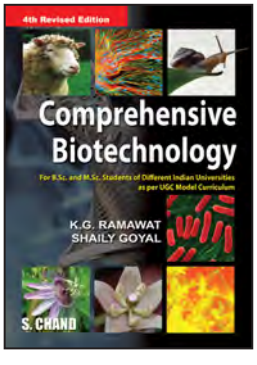
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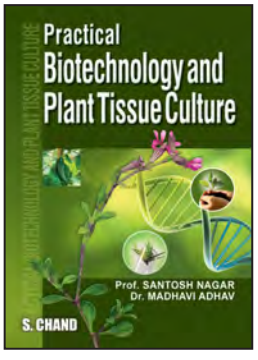

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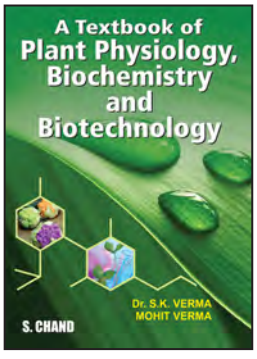

## Practical Biotechnology and Plant Tissue Culture

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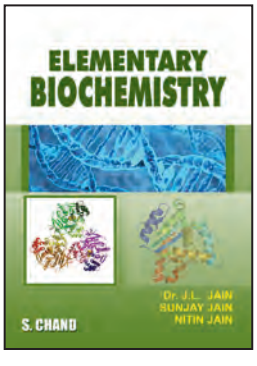

## A Textbook of Plant Physiology, Biochemistry and Biotechnology

S K Verma & Mohit Verma

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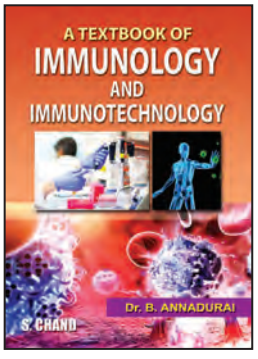

## Elementary Biochemistry

J L Jain, Sunjay Jain & Nitin Jain

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## A Textbook of Immunology and Immunotechnology

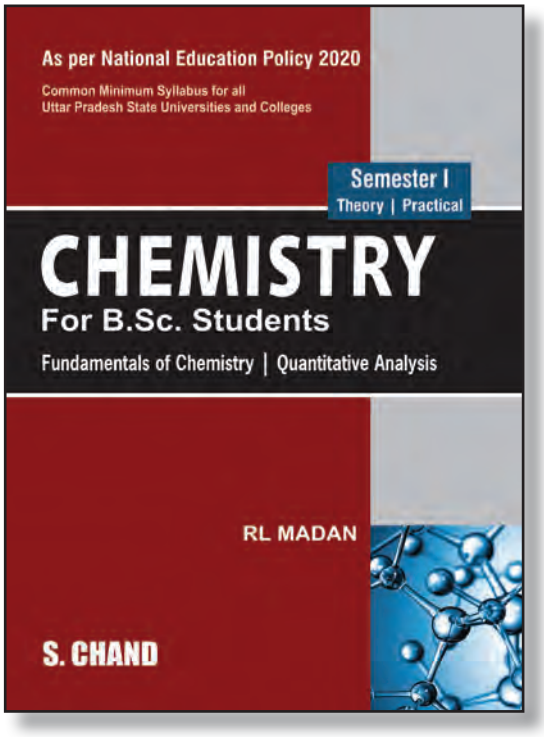
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### Contents

1. History of Immunology, 2. Architecture of Immune System, 3. Immune Response, 4. Immunity, 5. Epitopes, 6. Structure and Function of Specific Immunoglobulins, 7. Immuno Diagnostics, ABO, Rh, Incompatibility, Widal Test, ELISA, RIA Techniques and Their Application, 8. Hypersensitivity, 9. Complement, 10. Autoimmunity, 11. Transplantation, 12. Interferon, 13. Cytokines, 14. Tissue Typing, 15. Adjuvants, 16. Antibody Forming Theory, 17. Antiser, 18. Antibody-Receptor Structure, 19. Designing Vaccines for Active Immunization, 20. Cancer Immunology, 21. Acquired Immunodeficiency Syndrome (AIDS), 22. Immunological & Immunochemical Techniques, 23. Staphylococcus Aureus Protein, A Purification, 24. Agglutination Reaction, 25. Purification of Ig by Ion Exchange Chromatography, 26. Radio Immunoassay and Related Technique, 27. Elisa (Enzyme Linked Immunosorbent Assay) and Emit, 28. New Vistas for Monoclonal Antibodies Avoiding Detection • *Appendices: I. Answers to Study Questions • II. Glossary • Index*

(NEP 2020, CMS Uttar Pradesh)




# Chemistry for B.Sc. Students Semester-I ( NEP-2020-Uttar Pradesh)

Dr. RL Madan

## About the Book

This textbook has been designed to meet the needs of B. Sc. First Semester students of Chemistry as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook comprehensively covers two papers, namely, Fundamentals of Chemistry and Quantitative Analysis. Important theoretical topics such as molecular polarity & weak chemical forces, simple bonding theories of molecules, periodic properties of atoms, basics of organic chemistry, mechanism of organic reactions, stereochemistry and the mathematical concepts of chemistry are aptly discussed to give an overview of Fundamentals of Chemistry. Practical part covering Quantitative Analysis has been presented systematically to help students achieve solid conceptual understanding and learn experimental procedures.

## Key Features

- Well drawn illustrations and examples have been provided to make the reading interesting and engaging
- A large number of solved problems have been provided for effective understanding of the theoretical concepts
- Questions for practice have been provided at the end of each chapter

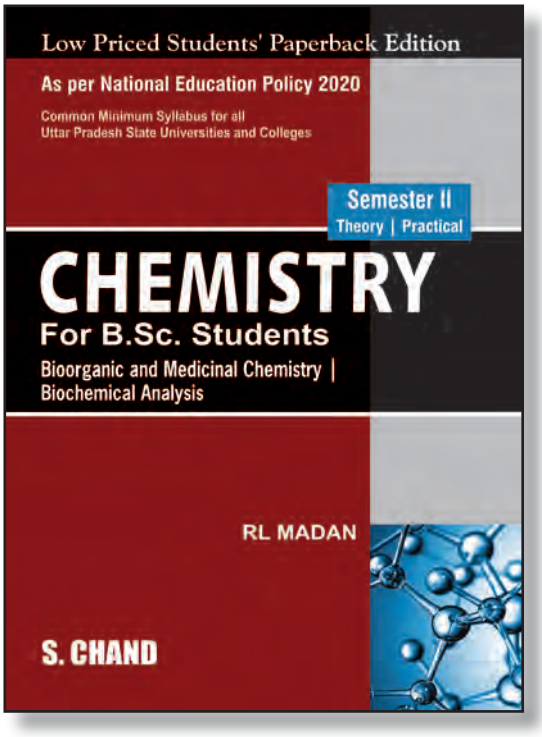
**ISBN: 9789355011626 | Price: ₹ 375 | Pages: 384 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Paper I: FUNDAMENTALS OF CHEMISTRY
1: Introduction to Indian Ancient Chemistry and Contribution of Indian Chemists
2: Simple Bonding Theories of Molecules
3: Periodic Properties of Atoms (With Reference to s- and p-Block).
4: Basics of Organic Chemistry
5: Mechanism of Organic Reactions
6: Stereochemistry
7: Basic Computer System
8: Mathematical Concepts for Chemistry
PAPER II: QUANTITATIVE ANALYSIS
1: Water Quality Analysis
2: Estimation of Metal Ions
3: Estimation of Acid and Alkali Content
4: Estimation of Inorganic Salts and Hydrated Water

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals.

He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.




# Chemistry for B.Sc. Students Semester-II NEP-2020-Uttar Pradesh

Dr. RL Madan

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Chemistry as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Maintaining the traditional approach to the subject, this textbook comprehensively covers two papers, namely, Bioorganic and Medicinal Chemistry and Biochemical Analysis. Important theoretical topics such as chemistry of carbohydrates, proteins & nucleic acids, laws of crystallography, introduction & classification of monomers, oligomers, polymers are aptly discussed to give an overview of Bioorganic and Medicinal Chemistry. Practical part covering Biochemical Analysis has been presented systematically to help students achieve solid conceptual understanding and learn experimental procedures.

## Key Features

- Well drawn illustrations and examples have been provided to make the reading interesting and engaging
- A large number of solved problems have been provided for effective understanding of the theoretical concepts
- Questions for practice have been provided at the end of each chapter

**ISBN: 9789355012739 | Price: ₹ 390 | Pages: 328 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**PAPER I: BIOORGANIC AND MEDICINAL CHEMISTRY**

1: Chemistry of Carbohydrates
2: Chemistry of Proteins
3: Chemistry of Nucleic Acids
4: Introductory Medicinal Chemistry
5: Solid State
6: Introduction to Polymers
7: Kinetics and Mechanism of Polymerization
8: Synthetic Dyes

**PAPER II: BIOCHEMICAL ANALYSIS**

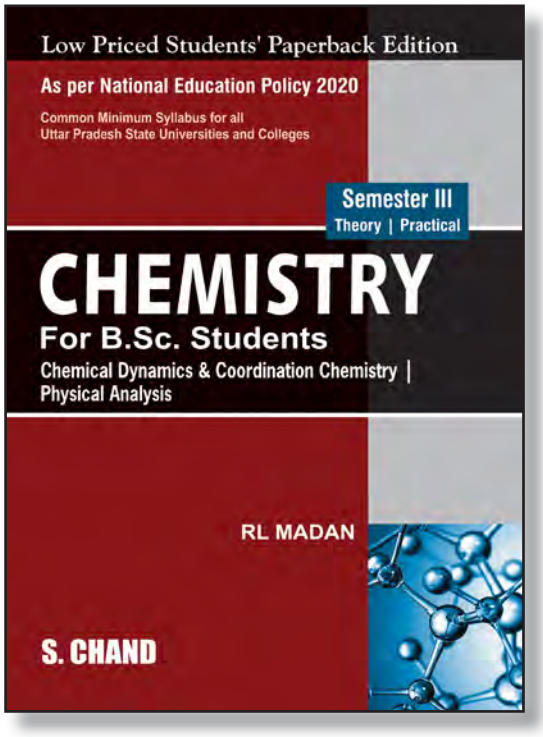
1: Qualitative and Quantitative Analysis of Carbohydrates
2: Qualitative and Quantitative Analysis of Proteins, Amino Acids and Fats
3: Determination and Identification of Nucleic Acids
4: Synthesis of Simple Drug Molecules

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals.

He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Chemistry for B.Sc. Students Semester-III NEP-2020-Uttar Pradesh

Dr. RL Madan

## About the Book

This textbook has been designed to meet the needs of B.Sc. Third Semester students of Chemistry as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020.

Maintaining the traditional approach to the subject, this textbook comprehensively covers two papers, namely, Chemical Dynamics and Coordination Chemistry. Important theoretical topics such as Chemical Kinetics, Coordination Chemistry, Inorganic Spectroscopy and Magnetism are aptly discussed to give an overview of Chemical Dynamics and Coordination Chemistry. Practical part covering Physical Analysis has been presented systematically to help students achieve solid conceptual understanding and learn experimental procedures.

## Key Features

- Well drawn illustrations and examples have been provided to make the reading interesting and engaging
- Multiple solved problems have been provided for effective understanding of the theoretical concepts
- Questions for practice have been provided at the end of each chapter

**ISBN: 9789355014986 | Price: ₹ 395 | Pages: 420 | Size: 6.5" X 9.25" (Paperback)**

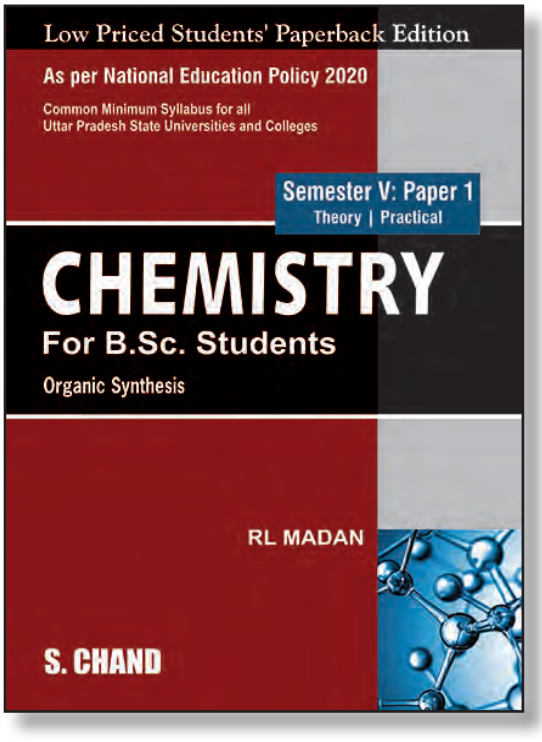
## Contents

THEORY
1. Chemical Kinetics
2. Chemical Equilibrium
3. Phase Rule
4. Kinetic Theory of Gases
5. Liquids
6. Coordination Chemistry
7. Theories of Coordination Chemistry
8. Inorganic Spectroscopy and Magnetism

PRACTICAL ANALYSIS: LABORATORY WORK
1. Strength of Solutions
2. Surface Tension and Viscosity
3. Boiling Point and Transition Temperature
4. Phase Equilibrium

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals.

He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.




# Chemistry For B.Sc. Students

## Semester V: Paper 1 NEP-2020-Uttar Pradesh

Dr. RL Madan

### About the Book

This textbook has been specifically developed as per latest curriculum on the directives of NEP 2020 – For the Universities of Uttar Pradesh for B. Sc. Students of Chemistry for the Fifth Semester. Maintaining the traditional approach to the subject, Theory part comprehensively covers important topics such as Alkanes, Cycloalkanes, Chemistry of Alkenes, Alkynes, Aromaticity & Arenes, Alcohols, Phenols, Ethers & Epoxides, and Chemistry of Organic Halides. All chapters have been presented systematically to help students in Achieving Solid Conceptional understanding and learn experimental procedures.

Practical Part covers Elemental analysis and Identification of functional groups, Separation of Organic Mixture and identification of organic compounds presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and make it interesting.
- Close to 150 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- Close to 325 exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

**ISBN: 9789355018304 | Price: ₹ 399 | Pages: 424 | Size: 6.5" X 9.25" (Paperback)**

### Contents

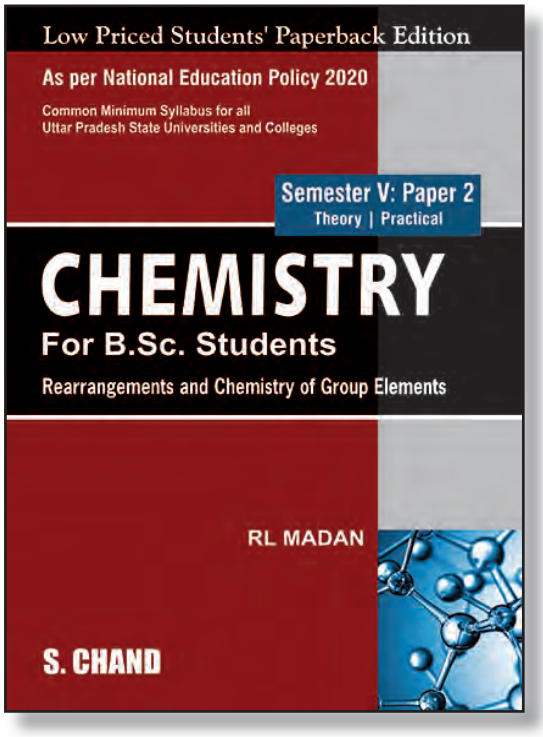
THEORY
1. Alkanes
2. Cycloalkanes
3. Chemistry of Alkenes
4. Chemistry of Alkynes
5. Aromaticity and Chemistry of Arenes
6. Chemistry of Alcohols
7. Chemistry of Phenols
8. Chemistry of Ethers and Epoxides
9. Chemistry of Organic Halides

THEORY
1. Organic Qualitative Analysis

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Chemistry For B.Sc. Students

## Semester V: Paper 2 NEP-2020-Uttar Pradesh

Dr. RL Madan

### About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Chemistry (Fifth Semester) for the Universities of Uttar Pradesh. Maintaining the traditional approach to the subject, Theory part comprehensively covers important topics such as

Rearrangements, Catalysis, Main Group Elements, Transition Elements, Lanthanides, Actinides, Metal Carbonyls and Bioinorganic Chemistry. Practical Part covers Inorganic Qualitative Analysis, Analysis of Acid Radicals, Interference Among Acid Radicals, Analysis of Basic Radicals, Semi-Micro Analysis presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and make it interesting.
- Close to 175 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- More than 400 exercises, covering objective and subjective questions, have been provided to enhance and strengthen the learning of the students.

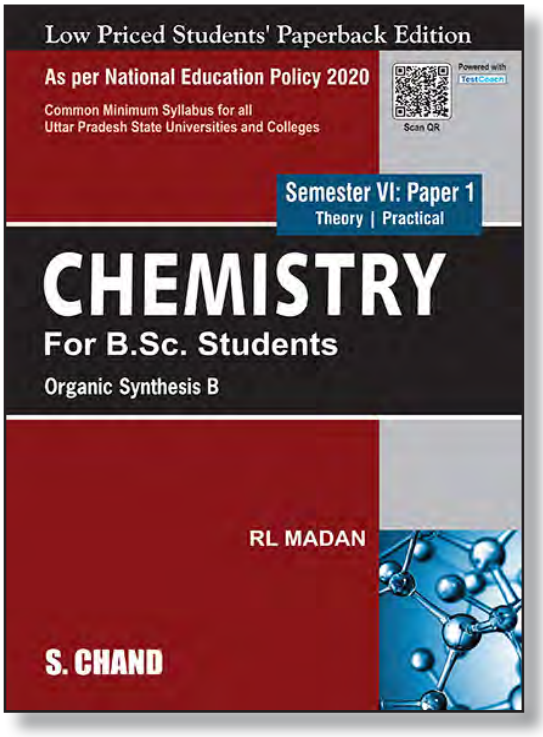
**ISBN: 9789355018236 | Price: ₹ 399 | Pages: 400 | Size: 6.5" X 9.25" (Paperback)**

### Contents

THEORY
1. Rearrangements
2. Catalysis
3. Chemistry of Main Group Elements
4. Chemistry of Elements of First Transition Series
5. Chemistry of Elements of Second and Third Transition Series
6. Chemistry of Lanthanides
7. Chemistry of Actinides
8. Metal Carbonyls
9. Bio-inorganic Chemistry

PRACTICALS
1. Inorganic Qualitative Analysis (Macro-Analysis)
2. Analysis of Acid Radicals
3. Interference Among Acid Radicals
4. Analysis of Basic Radicals
5. Semi-Micro Analysis

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.




# Chemistry For B.Sc. Students

## Semester VI: Paper 1 NEP-2020-Uttar Pradesh

Dr. RL Madan

### About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B.Sc. Chemistry Sixth Semester (Paper 1) for the Universities of Uttar Pradesh. Maintaining the traditional approach to the subject, Theory part comprehensively covers important topics such as Reagents in organic Synthesis, Organometallic compounds, Chemistry of Aldehydes and Ketones, Carboxylic Acids and their Functional Derivatives, Hydroxy, Unsaturated and Dicarboxylic Acids Organic Synthesis via Enolates, Organic Compounds of Nitrogen, Heterocyclic Chemistry and Natural Products.

The Practical Part covers Paper Chromatography and Thin-Layer Chromatography to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and make it interesting.
- Analogies from daily life have been drawn to explain different phenomena in an effective manner.
- Close to 250 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- Close to 450 exercises, covering objective and subjective questions, have been provided to enhance and strengthen the learning of the students.

**ISBN: 9789358706857 | Price: ₹ 399 | Pages: 432 | Size: 6.5" X 9.25" (Paperback)**

### Contents

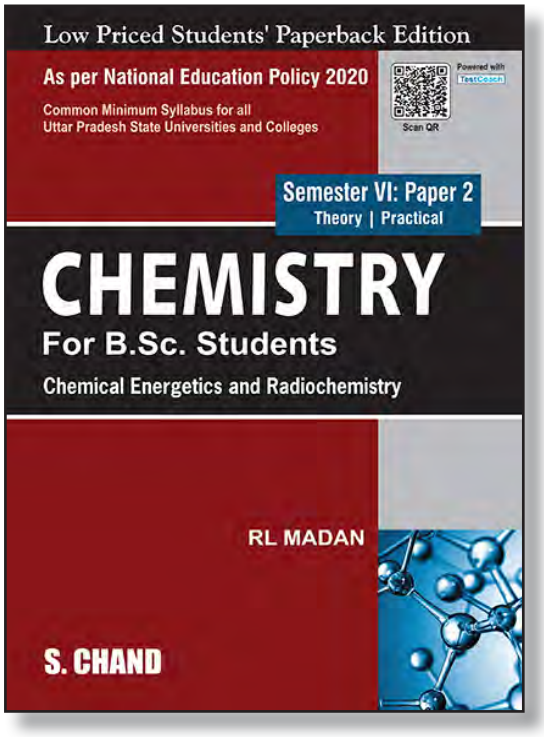
THEORY
1: Reagents in Organic Synthesis
2. Basics of Organic Chemistry I
3. Chemistry of Aldehydes and Ketones
4. Carboxylic Acids
5. Hydroxy, Unsaturated and Dicarboxylic Acids
6. Carboxylic Acid Derivatives
7. Organic Synthesis Via Enolates
8. Organic Compounds of Nitrogen
9. Heterocyclic Compounds
10. Natural Products (Alkaloids and Terpenes)

PRACTICALS
1: Paper Chromatography
2. Thin Layer Chromatography

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.

(NEP 2020, CMS Uttar Pradesh)

(NEP 2020, CMS Uttar Pradesh)




# Chemistry For B.Sc. Students

## Semester VI: Paper 2 NEP-2020-Uttar Pradesh

Dr. RL Madan

### About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Chemistry Sixth Semester, (Paper 2) for the Universities of Uttar Pradesh. Maintaining the traditional approach to the subject, Theory part comprehensively covers important topics such as Thermodynamics-I, Thermodynamics-II, Nernst Distribution Law, Electrochemistry, Ionic Equilibrium, Photochemistry, Colligative Properties, Adsorption and Catalysis, Surface Chemistry and Radiochemistry.

The Practical Part covers Gravimetry and Thermochemistry to help students in achieving solid conceptional understanding and learning experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and make it interesting.
- Analogies from daily life have been drawn to explain different phenomena in an effective manner.
- Close to 450 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- Close to 400 exercises, covering objective and subjective questions, have been provided to enhance and strengthen the learning of the students.

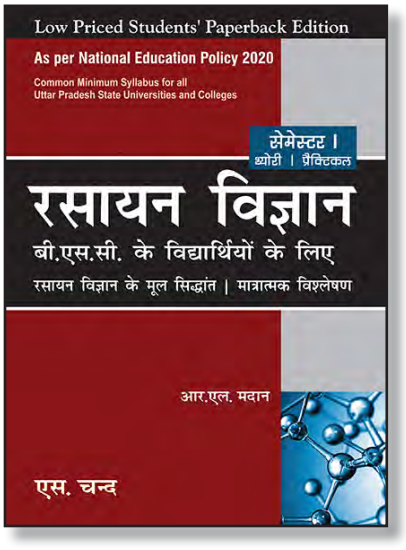
**ISBN: 9789358702033 | Price: ₹ 425 | Pages: 400 | Size: 6.5" X 9.25" (Paperback)**

### Contents

THEORY
1. Thermodynamics-I
2. Thermodynamics-II
3. Nernst Distribution Law
4. Nernst Distribution Law
5. Ionic Equilibrium
6. Photochemistry
7. Colligative Properties
8. Adsorption and Catalysis
9. Surface Chemistry-II Colloids
10. Radiochemistry

PRACTICALS
1. Gravimetric Analysis
2. Thermochemistry

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.




## रसायन विज्ञान बी.एस.सी. के विद्यार्थियों के लिए सेमेस्टर I NEP-2020-Uttar Pradesh

Dr. RL Madan

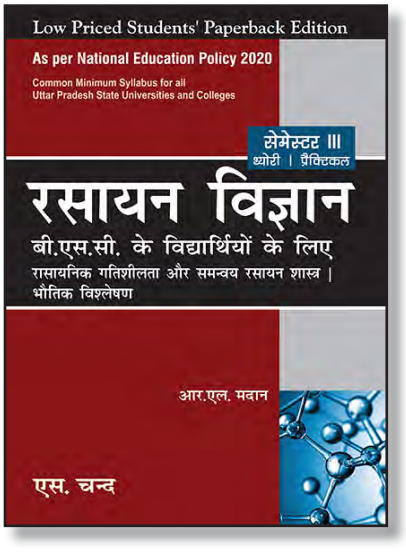
### पुस्तक के विषय में

यह पाठ्यपुस्तक अनुशंसित राष्ट्रीय शिक्षा नीति 2020 के अंतर्गत उत्तर प्रदेश राज्य के सभी विश्वविद्यालयों और कॉलेजों के बी॰ एस॰ सी॰ रसायन विज्ञान के प्रथम सेमेस्टर के विद्यार्थियों के लिए विकसित की गयी है। विषय के प्रति पारम्परिक दृष्टिकोण को बनाये रखते हुए इस पाठ्यपुस्तक में दो प्रपत्र 'रसायन विज्ञान के मूल सिद्धांत' और 'मात्रात्मक विश्लेषण' शामिल किए गए हैं। रसायन विज्ञान के मूल सिद्धांतों के अवलोकन के लिए महत्वपूर्ण सैद्धांतिक विषयों, जैसे–आणविक ध्रुवीयता एवम् दुर्बल रासायनिक बल, अणु के सरल आबंध सिद्धांत, अणुओं के आवर्ती गुण, कार्बनिक रसायन विज्ञान के मूलभूत तथ्य, कार्बनिक अभिक्रियाओं की क्रियाविधि, त्रिविम रसायन और रसायन विज्ञान की गणितीय अवधारणा, पर उपयुक्त चर्चा की गई है। विद्यार्थियों को संकल्पनात्मक समझ प्रदान करने के लिए और प्रायोगिक प्रक्रियाएँ सिखाने के लिए, मात्रात्मक विश्लेषण का प्रैक्टिकल भाग सुव्यवस्थित रूप से प्रस्तुत किया गया है।

### प्रमुख विशेषताएँ:

- विषय को रोचक और आकर्षक बनाने के लिए चित्र और उदहारण
- सैद्धांतिक अवधारणा की प्रभावी समझ के लिए बड़ी संख्या में हल किये गए उदाहरण
- प्रत्येक अध्याय के अंत में अभ्यास के लिए प्रश्न

**ISBN: 9789355019035 | Price: ₹ 350 | Pages: 392 | Size: 6.5" X 9.25" (Paperback)**




## रसायन विज्ञान बी.एस.सी. के विद्यार्थियों के लिए सेमेस्टर III NEP-2020-Uttar Pradesh

Dr. RL Madan

### पुस्तक के विषय में

यह पाठ्यपुस्तक अनुशंसित राष्ट्रीय शिक्षा नीति २०२० के अतंर्गत उत्तर प्रदेश राज्य के सभी विश्वविद्यालयों और कॉलेजों के बी॰ एस॰ सी॰ रसायन विज्ञान के तृतीय सेमेस्टर के विद्यार्थियों के लिए विकसित की गयी है। विषय के प्रति पारम्परिक दृष्टिकोण को बनाये रखते हुए इस पाठ्यपुस्तक में दो प्रपत्र 'रासायनिक गतिशीलता और समन्वय रसायन शास्त्र' तथा 'भौतिक विश्लेषण' का अवलोकन देने के लिए रासायनिक गतिकी, रासायनिक साम्यवस्था, प्रावस्था नियम, गैसीय अणुगतिक सिद्धांत, द्रव पदार्थ, उपसहसंयोजन रसायन, समन्वय रसायन विज्ञान के सिद्धांत और अकार्बनिक स्पेक्ट्रोस्कोपी और चुम्बकत्व जैसे महत्वपूर्ण सैद्धांतिक विषयों पर उपयुक्त रूप से चर्चा की गई है। विद्यार्थियों को संकल्पनात्मक समझ प्रदान और प्रायोगिक प्रक्रियाएँ सिखाने हेतु, मात्रात्मक विश्लेषण के प्रैक्टिकल भाग को व्यवस्थित रूप से प्रस्तुत किया गया है।

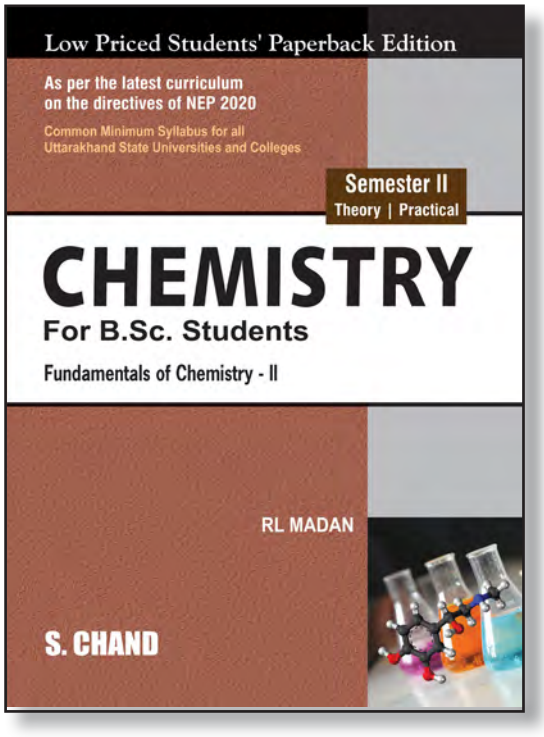
### प्रमुख विशेषताएँ:

- विषय को रोचक और आकर्षक बनाने हेतु चित्र और उदाहरण
- सैद्धांतिक अवधारणा की प्रभावी समझ हेतु बड़ी संख्या में हल किये गए उदाहरण
- प्रत्येक अध्याय के अंत में अभ्यास प्रश्न

**ISBN: 9789355019042 | Price: ₹ 350 | Pages: 432 | Size: 6.5" X 9.25" (Paperback)**

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.

(NEP 2020, Universities of Uttarakhand)




# Chemistry for B.Sc. Students Semester II NEP 2020 Universities of Uttarakhand

Dr. RL Madan

## About the Book

This textbook has been conceptualized for B.Sc. Second Semester students of Chemistry as per common minimum syllabus prescribed for all Uttarakhand State Universities and Colleges under the recommended National Education Policy (NEP) 2020. Maintaining the traditional approach to the subject, this textbook comprehensively covers two papers, namely Fundamentals of Chemistry II and Chemical Analysis II. Important topics such as Chemical Bonding II, Salient Features of s- and p-Block Elements, Alkanes and Cycloalkanes, Alkenes, Alkynes, Aromatic Compounds, Chemical Kinetics and Catalysis, Thermodynamics-I, Laboratory Hazards and Safety Precautions, Volumetric Analysis— Acid-Base Titrations, Differentiation between Alkanes, Alkenes and Alkynes are aptly discussed. Practical Part covering Chemical analysis II has been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

## Key Features

- Highlights important laws, concepts, and principles for a more focused learning
- Close to 325 examples and well-drawn illustrations have been provided to make the reading interesting and engaging
- Close to 450 exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

**ISBN: 9789355016928 | Price: ₹ 425 | Pages: 496 | Size: 6.5" X 9.25" (Paperback)**

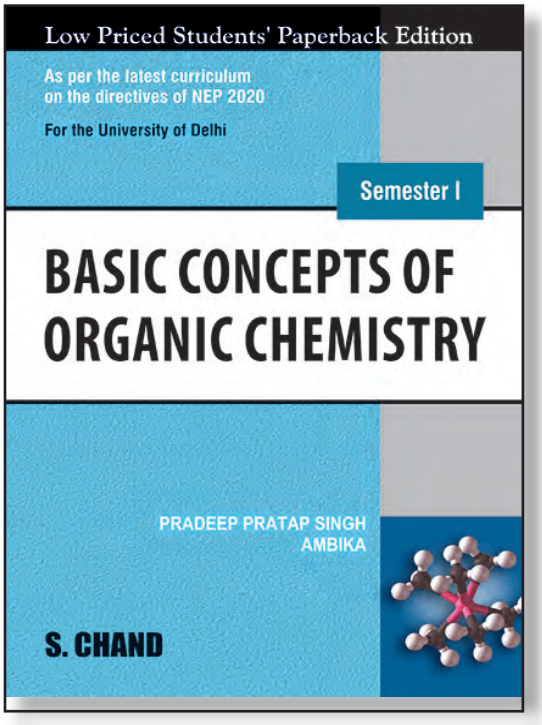
## Contents

THEORY
1. Chemical Bonding-II
2. Salient Features of s - and p-Block Elements
3. Alkanes and Cycloalkanes
4. Alkenes
5. Alkynes
6. Aromatic Compounds
7. Chemical Kinetics and Catalysis
8. Thermodynamics-I

PRACTICALS
1. Laboratory Hazards and Safety Precautions
2. Volumetric Analysis— Acid-Base Titrations
3. Differentiation between Alkanes, Alkenes and Alkynes
4. Viscosity of Liquids

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.


e-mail: info@schandpublishing.com




# Basic Concepts of Organic Chemistry Semester - I NEP 2020 University of Delhi

Dr. Pradeep Pratap Singh & Dr. Ambika

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Chemistry of Delhi University and Colleges as per the recommended National Education Policy 2020. This textbook explains the subject in the most student-friendly way and is designed to keep itself updated with the latest in research. Organic chemists think by constructing mental pictures of molecules and communicate with each other by drawing pictures. This book favors series of figures over long discussions in the text and covers important topics such as Fundamentals of Organic Chemistry, Reactive Intermediates and Rearrangement Reactions, Electrophilic addition reactions, Nucleophilic addition and substitution a reaction, Elimination reactions, Electrophilic substitution reactions and Stereochemistry.

Instructor's Resource available

## Key Features

- An emphasis is placed on presenting the material pictorially
- Fundamental concepts of organic chemistry like reactive intermediates, rearrangement reactions and types of organic reactions are discussed broadly
- Stereochemistry includes a summary of isomers, different projections and relative versus absolute configurations
- The book also provides an overview of various laboratory techniques and their applications

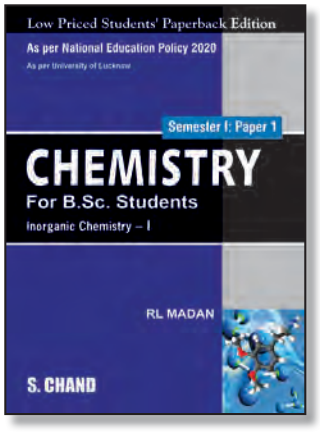
**ISBN: 9789355016218 | Price: ₹ 225 | Pages: 224 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Fundamentals of Organic Chemistry
2. Reactive Intermediates and Rearrangement Reactions
3. Electrophilic addition reactions
4. Nucleophilic addition reactions
5. Nucleophilic substitution reactions
6. Elimination reactions
7. Electrophilic substitution reactions
8. Stereochemistry Chemistry Experiments

**Dr. Pradeep Pratap Singh,** M.Phil., PhD. (Associate Professor) Department of Chemistry, Swami Shraddhanand College (University of Delhi), Delhi.

**Dr. Ambika,** M.Sc., PhD., Department of Chemistry, Hansraj College (University of Delhi), Delhi




## Chemistry for B.Sc. Students Semester I Paper 1 NEP 2020 University of Lucknow

Dr. RL Madan

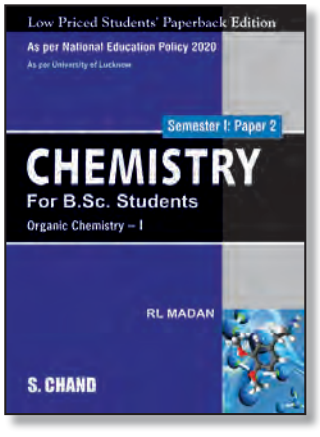
### About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Chemistry (First Semester) for the Lucknow University. Maintaining the traditional approach to the subject, the book comprehensively covers important topics such as Atomic Structure, Periodic Properties and Classification, Covalent Bond and Weak Interactions, Ionic Bond and Ionic Solids, s–Block Elements, p–Block Elements, and Noble Gases have been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and make it interesting.
- Close to 300 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- Close to 400 exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students.

**ISBN: 9789355018397 | Price: ₹ 275 | Pages: 304 | Size: 6.5" X 9.25" (Paperback)**




## Chemistry for B.Sc. Students Semester I Paper 2 NEP 2020 University of Lucknow

Dr. RL Madan

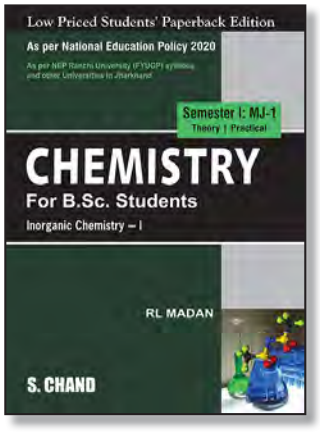
### About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Chemistry (First Semester) for the University of Lucknow. Maintaining the traditional approach to the subject, the book comprehensively covers important topics such as Structure and bonding, Mechanism and Types of Organic Reactions, Stereoisomerism, Alkanes, Cycloalkanes, Alkenes, Cycloalkenes, Dienes, Alkynes, Arenes, Aromaticity, Alkyl and Aryl Halides. All topics have been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and make it interesting.
- Close to 200 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- More than 400 exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students.

**ISBN: 9789355018380 | Price: ₹ 350 | Pages: 400 | Size: 6.5" X 9.25" (Paperback)**




## Chemistry for B.Sc. Students Semester I MJ-1 NEP 2020 Universities in Jharkhand

Dr. RL Madan

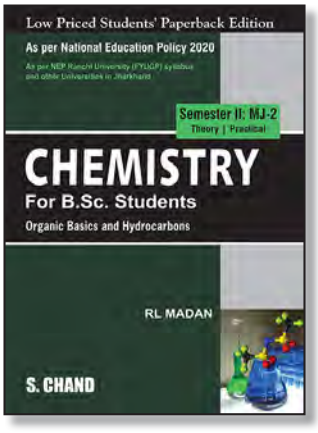
### About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Chemistry as per Common Minimum Syllabus prescribed for Ranchi University and other Universities and Colleges under the recommended National Education Policy 2020 in Jharkhand. Maintaining the traditional approach to the subject, the book comprehensively covers important topics such as Atomic Structure, Periodicity of Elements, Ionic Bond, Covalent Bond, Metallic Bond, Weak Chemical Forces, Oxidation-Reduction, Principles of Metallurgy, and Inorganic Polymers. The practical part contains Titrimetric Analysis, Acid-Base Titrations, Potassium Permanganate Titrations and Potassium Dichromate Titrations. All topics have been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and to make it interesting.
- More than 250 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- Close to 400 exercises, covering objective and subjective questions, have been provided to enhance and strengthen the learning of the students.

**ISBN: 9789355018403 | Price: ₹ 325 | Pages: 320 | Size: 6.5" X 9.25" (Paperback)**




## Chemistry for B.Sc. Students Semester II MJ-2 NEP 2020 Universities in Jharkhand

Dr. RL Madan

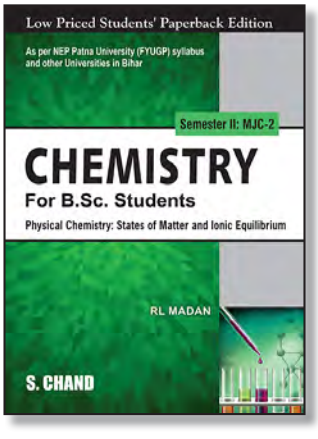
### About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Chemistry as per Common Minimum Syllabus prescribed for Ranchi University and other Universities and Colleges under the recommended National Education Policy 2020 in Jharkhand. Maintaining the traditional approach to the subject, the book comprehensively covers important topics such as Basics of Organic Chemistry, Stereochemistry, Alkanes, Alkenes, Alkynes, Aromatic Hydrocarbons and Polynuclear Hydrocarbons. The practical part describes experiments on Acquaintance with Chemistry Laboratory, Common Procedures, Acid-Base and Oxidation-Reduction Titrations. All topics have been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and to make it interesting.
- Close to 200 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- More than 200 exercises, covering objective and subjective questions, have been provided to enhance and strengthen the learning of the students.
- Theoretical background of the experiments in the laboratory part has been included for proper understanding.

**ISBN: 9789355018441 | Price: ₹ 375 | Pages: 424 | Size: 6.5" X 9.25" (Paperback)**




## Chemistry for B.Sc. Students Semester I MJC-2 NEP 2020 Universities in Bihar

Dr. RL Madan

### About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Chemistry as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar. Maintaining the traditional approach to the subject, the book comprehensively covers important topics such as

Gaseous, Liquid and Solid State, Ionic Equilibrium. The practical part describes experiments on Surface Tension of Liquids, Viscosity of Liquids, Molecular Weight of a Volatile Compound, Buffer Solutions, and pH Metric Acid-Base Titrations.

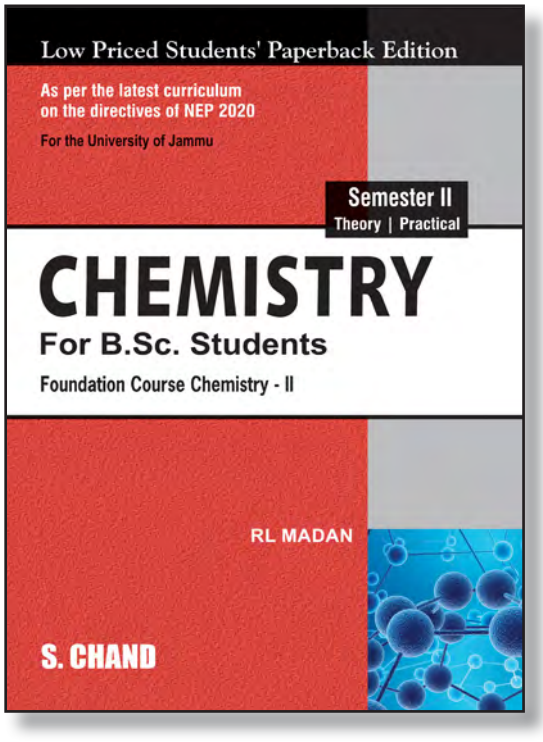
### Key Features

- Neatly drawn diagrams and other interesting images have been provided to understand the subject matter and to make it interesting.
- Close to 200 examples and well-drawn illustrations have been provided to make the reading interesting and engaging.
- More than 200 exercises, covering objective and subjective questions, have been provided to enhance and strengthen the learning of the students.
- Theoretical background of the experiments in the laboratory part has been included for proper understanding.

**ISBN: 9789358705447 | Price: ₹ 200 | Pages: 216 | Size: 6.5" X 9.25" (Paperback)**

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.

(NEP 2020 for the University of Jammu)




# Chemistry For B.Sc Students Semester II Foundation Course Chemistry - II: NEP 2020 University of Jammu

Dr. RL Madan

## About the Book

This textbook has been conceptualized for B.Sc. Second Semester students of Chemistry as per common minimum syllabus prescribed for Universities in Jammu State as per the recommended National Education Policy (NEP) 2020. Maintaining the traditional approach to the subject, Theory part comprehensively covers important topics such as States of Matter II (Liquids), States of Matter-III (Solids), Chemical Bonding and Molecular Structure - Ionic and Covalent Bonding and Stereochemistry. All chapters have been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures. Practical Part covering Surface Tension of Liquids, Viscosity of Liquids and Functional Group Identification has been presented systematically to help students in achieving solid conceptional understanding and learn experimental procedures.

## Key Features

- H Highlights important laws, concepts, and principles for a more focused learning
- Close to 250 examples and well-drawn illustrations have been provided to make the reading interesting and engaging
- Close to 325 exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

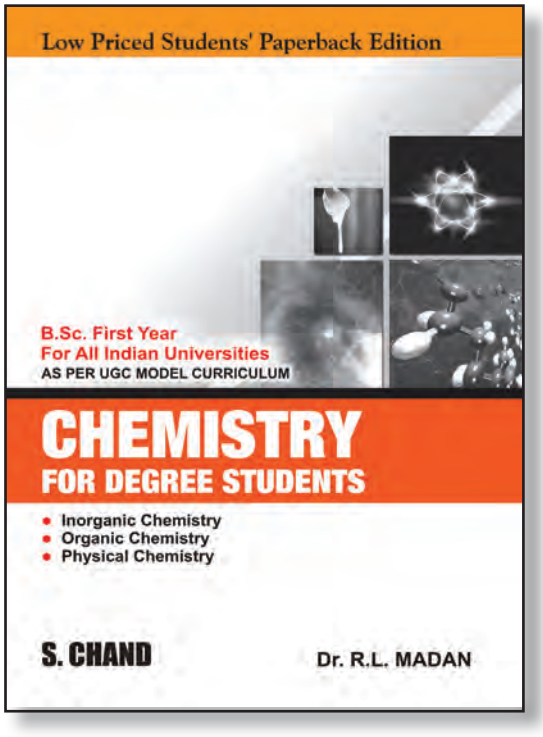
**ISBN: 9789355016973 | Price: ₹ 275 | Pages: 272 | Size: 6.5" X 9.25" (Paperback)**

## Contents

THEORY
1. States of Matter II (Liquids)
2. States of Matter III (Solids)
3. Chemical Bonding and Molecular Structure
   Section A: Ionic Bonding
   Section B: Covalent Bonding
4. Stereochemistry

PRACTICALS
1. Surface Tension of Liquids
2. Viscosity of Liquids
3. Functional Group Identification

**Dr. R L Madan** He has over 35 years experience of teaching chemistry at different levels. He has done extensive research work in the areas of adsorption, catalysis and surface chemistry at the Indian Institute of Technology, New Delhi. He has to his credit 15 research papers in the areas of adsorption, catalysis, polymers and superconductivity published in different national and international journals. He started his teaching career at Government Postgraduate College, Gurgaon. He has held positions of Head of the Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula and Tigaon (Faridabad). He is a recipient of UNESCO and Swedish Institute Fellowships and has authored a number of books on Chemistry and Environmental Education.




# Chemistry for Degree Students B.Sc. First Year (LPSPE)

R L Madan

## About the Book

An outgrowth of more than three decades of classroom teaching experience, this book provides a comprehensive treatment of the subject. It comprises three parts; Inorganic, Organic and Physical Chemistry. Illustrations and diagrams are provided to help students in understanding the chemical structures and reactions. This book will meet the requirements of undergraduate students of B.Sc. First Year of all Indian universities.

## Key Features

- Highlights important laws, concepts and principles for a more focussed learning
- Inclusion of a new chapter on "Thermodynamics"
- Innumerable illustrations and interesting examples

Instructor's Resource available

**ISBN: 9788194771784 | Price: ₹ 595 | Pages: 984 | Size: 6.5" X 9.25" (Paperback)**

## Contents

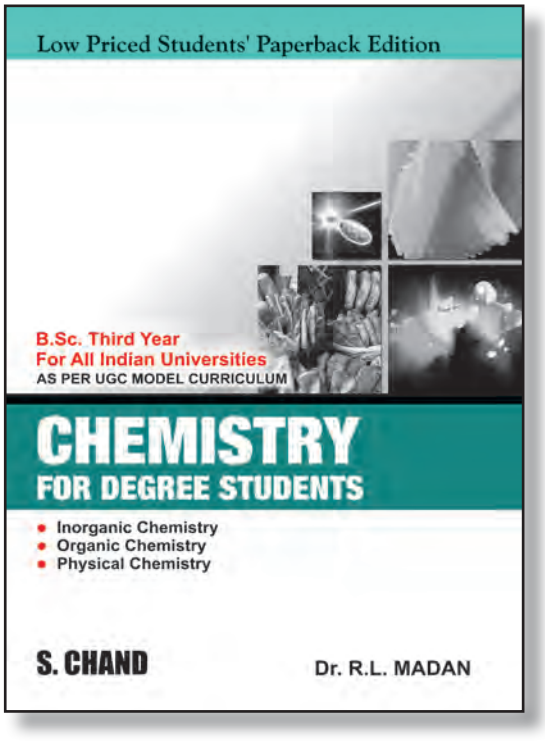
Part-I: Inorganic Chemistry
1. Atomic Structure
2. Periodic Properties
3. Covalent Bond
4. Ionic Bond
5. *s*-Block Elements
6. *p*-Block Elements
7. Chemistry of Noble Gases

Part-II: Organic Chemistry
1. Structure and Bonding
2. Mechanism of Organic Reactions
3. Stereochemistry of Organic Compounds
4. Alkanes and Cycloalkanes
5. Alkenes, Cycloalkenes, Dienes and Alkynes
6. Arenes and Aromaticity
7. Alkyl and Aryl Halides

Part-III: Physical Chemistry
1. Mathematical Concepts and Computers
2. Gaseous States
3. Liquid State
4. Solid State
5. Colloidal State
6. Chemical Kinetics
7. Catalysis
8. Thermodynamics-I

**R L Madan,** Formerly Head of Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula.

LOW PRICED STUDENTS' PAPERBACK EDITION




# Chemistry for Degree Students, B.Sc. Third Year (LPSPE)

R L Madan

## About the Book

- The book has been written in a simple and comprehensible language.
- A large number of illustrations, pictures and interesting examples have been provided to make the reading interesting and engaging.
- The important laws, concepts and principles have been highlighted for a more focussed learning.
- A large number of solved examples which have appeared in the examination papers of various universities have been given in each chapter for the benefit of students.
- The questions that have been provided in the Exercises are in tune with the latest pattern of examination.

**ISBN: 9788194771791 | Price: ₹ 595 | Pages: 944 | Size: 6.5" X 9.25" (Paperback)**

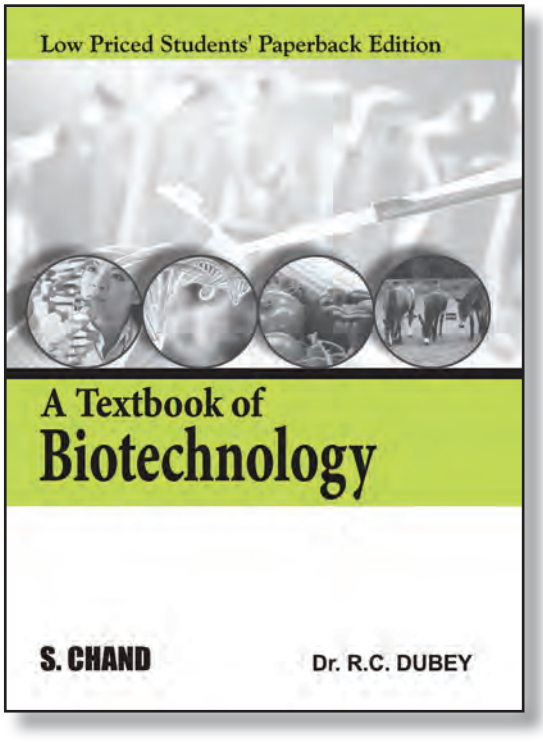
## Contents

Part-I: Inorganic Chemistry:
1. Hard and Soft Acids and Bases
2. Metal Ligand Bonding in Transition Metal Complexes
3. Magnetic Properties of Transition Metal Complexes
4. Electronic Spectra of Transition Metal Complexes
5. Thermodynamic and Kinetic Aspects of Metal Complexes
6. Organometallic Chemistry
7. Bioinorganic Chemistry
8. Silicones and Phosphazenes

Part-II: Organic Chemistry:
1. Spectroscopy
2. Organometallic Compounds
3. Organosulphur Compounds
4. Heterocyclic Compounds
5. Organic Synthesis Via Enolates
6. Carbohydrates
7. Amino Acids, Peptides, Proteins and Nucleic Acid
8. Fats, Oils, Soaps and Detergents
9. Synthetic Polymers
10. Synthetic Dyes

Part-III: Physical Chemistry:
1. Elementary Quantum Mechanics
2. Spectroscopy
3. Photochemistry
4. Physical Properties and Molecular Structure
5. Solutions, Dilute Solutions and Colligative Properties
6. Statistical Mechanics

**R L Madan,** Formerly Head of Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula.




# A Textbook of Biotechnology (LPSPE)

R C Dubey

## About the Book

*A Textbook on Biotechnology* presents an integrated study of biology, cell biology, chemistry and computer science and illustrates how biotechnology can be used to develop treatment for diseases and also beneficially alter genetics of humans and other life forms. Biotechnology is a field of applied biology which involves the use of living organisms and bioprocesses in engineering, technology, medicine and other fields which require by-products. The book covers diverse topics ranging from molecular biology, tissue culture, agricultural engineering, genetics, gene therapy, drug design, genome, probiotics and genetic engineering for animals, plants, micro-organisms, bioinformatics and medicine. Designed as a comprehensive textbook for undergraduate students of Biotechnology, this comprehensive and lucidly written text will also be useful for Civil Services and other competitive examinations.

## Key Features

- A separate section on Probiotics
- Over 250 well labelled diagrams and 100 tables to facilitate understanding of the concepts
- Nearly 250 chapter-end problems according to the latest pattern of examination
- Glossary of nearly 400 important technical terms explaining and defining difficult terms used in the text

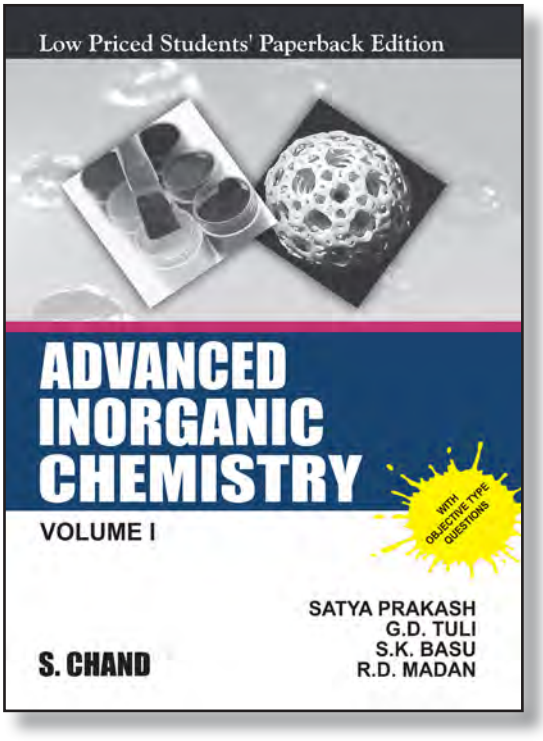
ISBN: 9789355010537 | **Price: ₹ 595 | Pages: 616 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Biotechnology: Scope and Importance
2. Genes: Nature, Concept and Synthesis
3. Tools of Genetic Engineering - I: Basic Requirements
4. Tools of Genetic Engineering–II: Cutting and Joining of DN
5. Tools of Genetic Engineering – III: Cloning Vectors
6. Techniques of Genetic Engineering (Cloning Methods and DNA Analysis) 7. Genetic Engineering for Human Welfare
8. Genomics and Proteomics
9. Bioinformatics
10. Animal Cell, Tissue and Organ Culture
11. Manipulation of Reproduction and Transgenic Animals
12. In Vitro Culture Techniques of Plant Cells, Tissues and Organs
13. Applications of Plant Cell, Tissues and Organ Cultures
14. Molecular Markers of Plant and Animal Genomes
15. Cryopreservation
16. Features of Biotechnological Importance in Microorganisms
17. Microbial Products: Primary and Secondary Metabolites
18. Single Cell Protein (SCP) and Mycoprotein
19. Biological Nitrogen Fixation
20. Biofertilizers (Microbial Inoculants)
21. Biopesticides (Biological Control of Plant Pathogens, Pests and Weeds)
22. Enzyme Biotechnology
23. Biomass: A Renewable Source of Energy
24. Biomass Energy (Bio-energy)
25. Environmental Biotechnology
26. Biotechnology and Biosafety, Intellectual Property Right (IPR) and Protection (IPP)
- *Glossary*
- *Bibliography*
- *Index*

**R C Dubey** M.Sc., Ph.D., F.B.S., F.P.S.I, F.N.R.S. Professor, Haridwar

LOW PRICED STUDENTS' PAPERBACK EDITION




# Advanced Inorganic Chemistry -Volume I (LPSPE)

Satya Prakash, G D Tuli, S K Basu & R D Madan

## About the Book

*Advanced Inorganic Chemistry - Volume I* is a concise book on basic concepts of inorganic chemistry. It acquaints the students with the basic principles of chemistry and further dwells into the chemistry of main group elements and their compounds. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

## Key Features

- More than 350 figures to facilitate understanding of concepts
- Over 700 questions from various university examinations and close to 900 multiple choice questions at the end of the book to test understanding of the concepts

**ISBN: 9789355010995 | Price: ₹ 850 Pages: 1,416**
**Size: 6.5" X 9.25" (Paperback)**

## Contents

Part-I: Basic Principles of Chemistry:

1. Quantum Mechanical Concepts of Atomic Structure: Rutherford's and Bohr's Atomic Models
2. Wave Mechanical Concepts of Atomic Structure
3. Periodic Table
4. Electronic Configuration of Elements
5. Atomic Properties: Periodic Properties
6. Radioactivity
7. Isotopes, Isotones, Isobars and Nuclear Isomers
8. Nuclear Chemistry: Chemistry of the Nucleus
9. Nuclear Reactions
10. Different Types of Chemical Bonds
11. Molecular Orbital Theory of Simple Diatomic Molecules and Ions
12. Valence – Shell Electron – Pair Repulsion (VSEPR) Theory: Shape of Molecules and Ions
13. Hybridization and its Different Types
14. Structure and Shape of Molecules / Ions Containing only Sigma Bonds
15. Structure and Shape of Molecules/ Ions Containing Sigma as well as Pi Bonds
16. Structure of Solids
17. Redox Reactions
18. Electrode Potentials and Electrochemical Series
19. Concepts of Acids and Bases
20. General Principles of Extraction of Metals and Furnances
21. Nomenclature of Inorganic Compounds

Part-II: Chemistry of Main Group Elements and Their Compounds (s-and p-block Elements):

22. General Characteristics of Main Group Elements (s-and p-block elements)
23. Group Discussion of Main Group Elements (s-and p-block elements)
24. Occurrence, Extraction / Isolation, Properties and Uses of some main Group Elements
25. Hydrides of Main Group Elements
26. Carbides of Main Group Elements
27. Nitrides of Main Group Elements
28. Oxides of Main Group Elements
29. Halides and Oxy-halides of Main Group Elements
30. Oxy-acids of Boron (Boric Acids) and their Salts
31. Oxy-acids of Nitrogen and their Salts
32. Oxy-acids of Phosphorus and their Salts
33. Oxy-acids of Sulphur and their Salts
34. Oxy-acids of Halogens and their Salts 35. Fixation of Nitrogen and Fertilisers
36. Inorganic Polymers
37. Important Compounds of Main Group Elements
38. Miscellaneous Topics

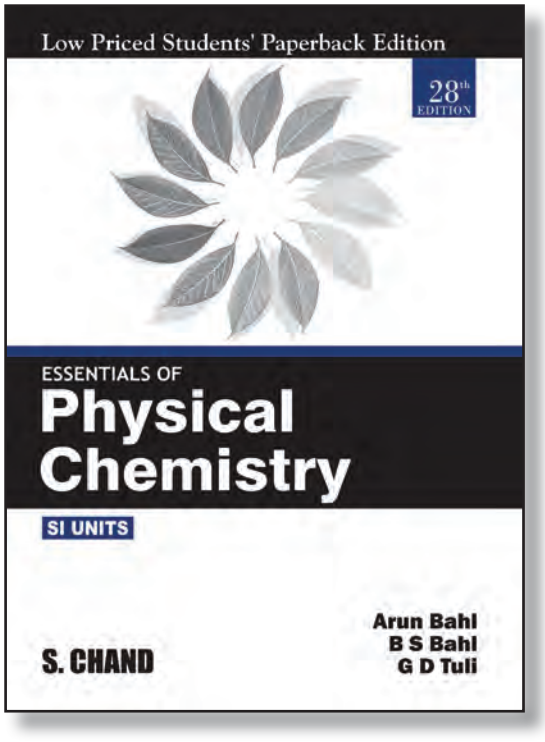
- *Multiple Choice Questions*
- *Subject Index*

**Satya Prakash,** Formerly Professor, Allahabad University, Allahabad.

**G D Tuli,** Formerly Principal, Shyam Lal College, University of Delhi, Delhi.

**S K Basu,** Formerly Professor, Banaras Hindu University, Varanasi.

**R D Madan,** Formerly Reader, Department of Chemistry, NREC College, Khurja.




# Essentials of Physical Chemistry (LPSPE)

Arun Bahl, B S Bahl & G D Tuli

## About the Book

Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions, illustrations and exercises. With clear explanation, systematic presentation, and scientific accuracy, the book not only helps the students clear misconceptions about the basic concepts but also enhances students' ability to analyse and systematically solve problems. This bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations.

## Key Features

- SI Units have been used throughout the text
- Numerous figures and solved problems have been provided for effective understanding of the concepts
- More than 1500 university examination questions and 1700+ multiple choice questions have been provided to test understanding of the concepts

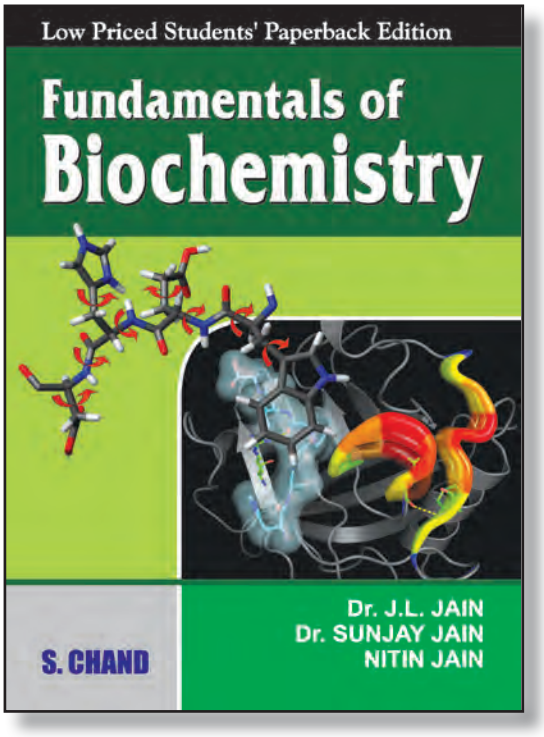
**ISBN: 9789355010605 | Price: ₹ 850 | Pages: 1,240 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Structure of Atom–Classical Mechanics
2. Structure of Atom–Wave Mechanical Approach
3. Isotopes, Isobars and Isotones
4. Nuclear Chemistry
5. Chemical Bonding–Lewis Theory
6. Chemical Bonding–Orbital Theory
7. First Law of Thermodynamics—Basic Concepts
8. Thermochemistry
9. Second Law of Thermodynamics
10. Gaseous State
11. Liquid State
12. Solid State
13. Physical Properties and Chemical Constitution
14. Solutions
15. Theory of Dilute Solutions
16. Osmosis and Osmotic Pressure
17. Chemical Equilibrium
18. Distribution Law
19. The Phase Rule
20. Chemical Kinetics
21. Catalysis
22. Colloids
23. Adsorption
24. Electrolysis and Electrical Conductance
25. Theory of Electrolytic Dissociation
26. Ionic Equilibria Solubility Product
27. Acids and Bases
28. Salt Hydrolysis
29. Electromotive Force
30. Photochemistry
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32. Mathematical Concepts
• Appendix
• Index

**Arun Bahl**, Professor of Organic Chemistry, Panjab University, Chandigarh
**B S Bahl**, Formerly Head of Postgraduate Department of Chemistry, DAV College, Jalandhar
**G D Tuli**, Formerly Principal, Shyam Lal College, University of Delhi

LOW PRICED STUDENTS' PAPERBACK EDITION




## Fundamentals of Biochemistry (LPSPE)

J.L. Jain & Sunjay Jain & Nitin Jain

### About the Book

This book has been primarily designed to familiarize the students with the basic concepts of biochemistry such as biomolecules, bioenergetics, metabolism, hormone biochemistry, nutrition biochemistry as well as analytical biochemistry. The book is flourished with numerous illustrations and molecular structures which would not only help the students in assimilating extensive information on a spectrum of concepts in biochemistry, but also help them in retaining the concepts in an effective manner.

### Key Features

- Over 850 figures to facilitate effective understanding of the concepts
- More than 600 questions to test understanding of the concepts
- Life history contributions of over 100 biochemists
- Exhaustive glossary with about 1700 words along-with etymology of most of the technical terms

**ISBN: 9789352838301 | Code: 9789352838301 | Price: ₹ 950 | Pages: 1,648 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Part-I: Prefatory:
1. Introduction
2. Water: The Solvent of Life
3. pH and Buffers
4. The Atom and Chemical Bonds

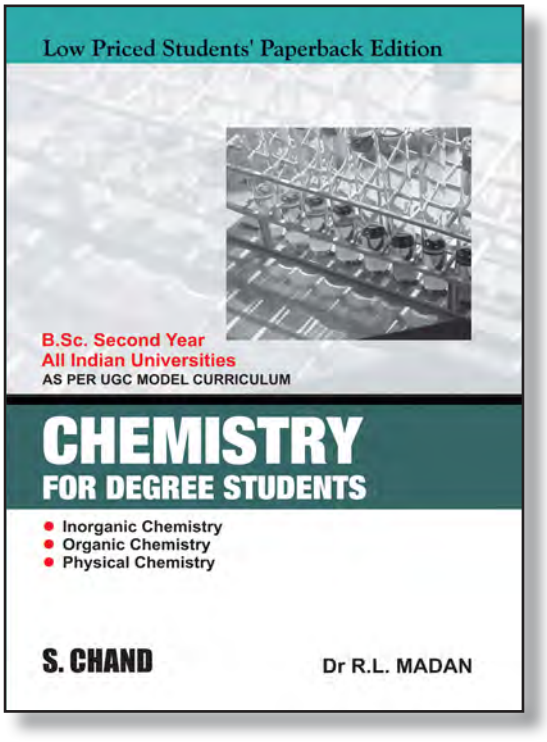
Part-II: Biomolecules:
5. Carbohydrates I – General Structure of Monosaccharides
6. Carbohydrates II – Properties of Monosaccharides
7. Carbohydrates III – Oligosaccharides
8. Carbohydrates IV – Polysaccharides
9. Proteins I – General Structure
10. Proteins II – Classification
11. Proteins III –General Properties
12. Lipids I – General Structure
13. Lipids II – Classification
14. Lipids III – Properties of Fats and Oils
15. Nucleic Acids
16. Enzymes I – Nomenclature and Classification
17. Enzymes II – Characteristic and three Dimensional Structure
18. Enzymes III – Mechanism of Enzyme Action,

Part-III: Bioenergetics and Metabolism:
19. Metabolic Concepts
20. Bioenergetics
21. Glycolysis
22. Pyruvate Oxidation and Citric Acid Cycle
23. Electron Transport and Oxidative Phosphorylation
24. Oxidation of Fatty Acids
25. Biosynthesis of Lipids
26. Oxidation of Amino Acids
27. Biosynthesis of Amino Acids
28. Biosynthesis of Nucleotides
29. Degradation of Nucleotides
30. Biosynthesis of Proteins
31. Protein Targeting and Degradation
32. Genetic Code
33. Mineral Metabolism

Part-IV: Hormone Biochemistry:
34. Animal Hormones
35. Plant Hormones

Part-V: Nutrition Biochemistry:
36. Principles of Nutrition
37. Elements of Nutrition
38. Fat-Soluble Vitamins,
39. Water-Soluble Vitamins

Part-VI: Analytical Biochemistry:
40. Biochemical Techniques
- *Appendices*
- *Glossary*
- *Author/Scientist Index*
- *Subject Index*




## Chemistry for Degree Students B.Sc. Second Year (LPSPE)

R.L. Madan

### About the Book

This textbook is written to meet the requirements of undergraduate students of B.Sc. Second Year of all Indian universities. Comprising three parts Inorganic, Organic and Physical, it comprehensively details all the principles of chemistry. Illustrations and diagrams are provided to help students in understanding the chemical structures and reactions.

### Key Features

- Highlights important laws, concepts and principles for a more focussed learning
- Interesting examples and illustrations provided throughout the text
- Exercises based on questions from different university papers

**ISBN: 9789352837250 | Code: 9789352837250 | Price: ₹ 595 | Pages: 1,120 | Size: 6.5" X 9.25" (Paperback)**

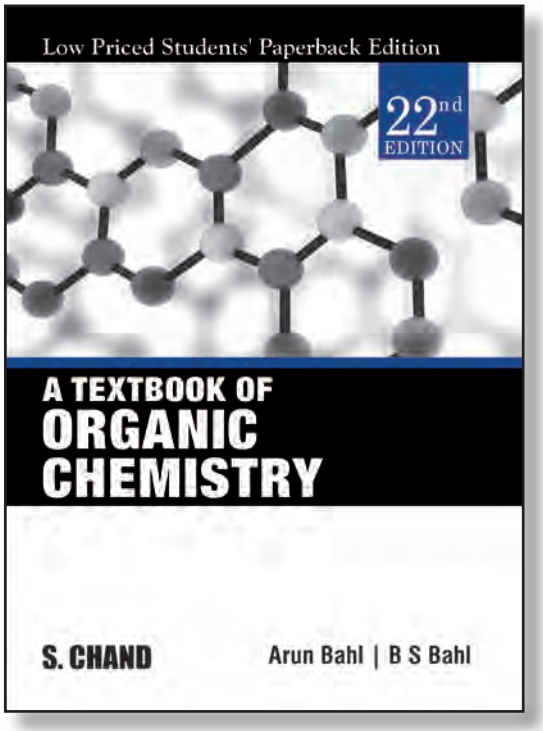
### Contents

Part-I: Inorganic Chemistry
1. Chemistry of Elements of First Transition Series
2. Chemistry of Elements of Second and Third Transition Series
3. Oxidation and Reduction
4. Coordination Compounds
5. Chemistry of Lanthanide Elements
6. Chemistry of Actinides
7. Acids and Bases
8. Non-Aqueous Solvents

Part-II: Organic Chemistry
1. Electromagnetic Spectrum: Absorption Spectra
2. Alcohols
3. Phenols
4. Ethers and Epoxides
5. Aldehydes and Ketones
6. Carboxylic Acids
7. Carboxylic Acid Derivatives
8. Organic Compounds of Nitrogen

Part-III: Physical Chemistry
1. Thermodynamics – I
2. Thermodynamics – II
3. Chemical Equilibrium
4. Phase Rule
5. Liquid-Liquid Mixtures
6. Distribution Law
7. Electrochemistry – I
8. Electrochemistry - II

**R L Madan,** Formerly Head of Chemistry Department, Government Postgraduate College, Faridabad and Principal, Government College, Panchkula.




# A Textbook of Organic Chemistry, 22e (LPSPE)

Arun Bahl & B S Bahl

## About the Book

With an increased focus on fundamentals, this new edition of *A Textbook of Organic Chemistry* continues to present the time-tested functional group approach to the subject. This examination-oriented book breaks the intricacies of Organic Chemistry into easy-to-understand steps which gives the student the necessary foundation to build upon, learn and understand Organic Chemistry in a way that is efficient as well as long-lasting.

## Key Features

- Chemistry of aliphatic and aromatic compounds is treated separately
- All reaction mechanisms are presented using the latest conventions
- Coloured illustrations and graphics highlight and reinforce the presentation of important points
- Over 3300 questions helping the students to achieve deeper understanding of the subject through constant reinforcement and practice

Instructor's Resource available

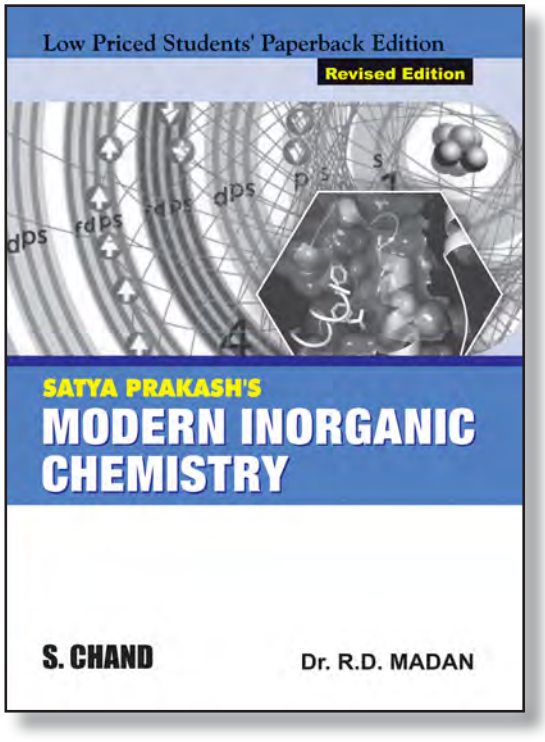
**ISBN: 9789352837304 | Code: 9789352837304 | Price: ₹ 650 | Pages: 1,128 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Getting Started
2. Purification of Organic Compounds
3. Composition of Organic Compounds
4. Empirical and Molecular Formulae
5. Structure of Organic Molecules
6. Organic Reactions and their Mechanism
7. Isomerism
8. Nomenclature of Organic Compounds
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10. Alkanes and Petroleum
11. Alkenes
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21. Dicarboxylic Acids
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25. Acetoacetic Ester and Malonic Ester
26. Fats and Oils; Soaps and Detergents
27. Amines
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29. Cycloalkanes
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40. Phenols and Aromatic Ethers
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43. Dyes: Color and Constitution
44. Naphthalene
45. Anthracene and Phenanthrene
46. Heterocyclic Compounds
47. Alkaloids
48. Terpenes
49. Synthetic Polymers
50. Vitamins, Steroids and Antibiotics
51. Predicting Trends
52. Multistep Synthesis
53. 500 New Multiple Choice Questions

- *Glossary*
- *Index*

**B S Bahl,** Principal and Head of the Department, Chemistry, DAV College, Jalandhar.
**Arun Bahl,** Formerly Professor of Chemistry, Panjab University, Chandigarh..




## Satya Prakash's Modern Inorganic Chemistry (LPSPE)

R.D. Madan

### About the Book

Satya Prakash's Modern Inorganic Chemistry is a treatise on the chemistry of elements on the basis of latest theories of Chemistry. Initial chapters are devoted to the study of fundamentals of Chemistry such as structure of atom, periodic classification of elements, chemical bonding and radioactivity, to name a few. It further graduates to complex discussions not only on extraction, properties and uses of the elements but also on preparation, properties, uses and structure of their important compounds. Chemistry of elements and their compounds have been explained on the basis of their position in the long form of periodic table and their electronic configurations/structures. Special emphasis has been put on the discussion of the correction between the structure and properties of elements/ compound. The book caters to the requirements of Bachelor in Science (Pass) courses. With detailed discussion on several advanced topics, the students of Bachelor in Science (Honours) and Masters in Science would also find it extremely useful.

### Key Features

- Strong pedagogy comprising more than 400 questions with explanations and answers, apt number of numerical questions with solutions and nearly 1000 university questions, to provide the students with better implied understanding of the concepts and to test their level of learning. Typical conceptual questions with answers and detailed solutions at the chapter end covering all important concepts, reaction equations, mechanisms and principles.
- Close to 500 diagrams and more than 60 tables interspersed throughout the text make it lucid and facilitate the grasping of concepts in an easy manner.
- Detailed subject index for quick cross-reference and detailed contents.

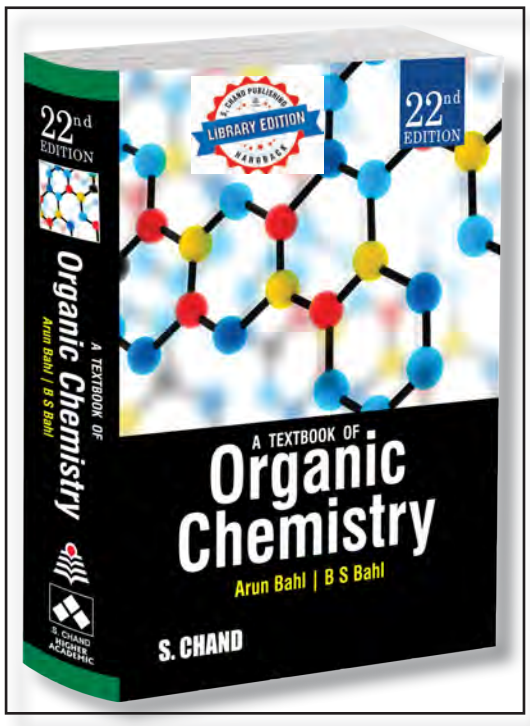
**ISBN: 9789352837298 | 9789352837298 | Price: ₹ 850 | Pages: 1,528 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Structure of the Atom (i) (Quantum Mechanical Approach: Dalton to Bohr-Sommerfeld)
2. Structure of the Atom (ii) (Wave Mechanical Approach)
3. Modern Periodic Table and Electronic Configuration of Atoms
4. Periodic Properties
5. Radioactivity, Isotopes, Isobars and Isotones
6. Nuclear Transmutations and Artificial Radioactivity
7. Chemical Bonding: Lewis Theory
8. Chemical Bonding: Orbital Concept, 9. Structure of Solids
10. Oxidation – Reaction Reactions
11. Standard Electrode Potentials
12. Modern Concepts of Acids and Bases
13. Non-Aqueous Solvents
14. Principles and Processes of Metallurgy
15. Various Reactive forms and Isotopes of Hydrogen
16. General Study of Hydrides
17. Heavy Water (D2O)
18. General Characteristics of Group 1 (IA) Elements: Alkali Meals
19. Chemistry of Lithium and its Compounds
20. General Characteristic of Group 2 (IIA) Elements: Alkaline Earth Metals
21. Chemistry of Beryllium, Radium, their Compounds and Portland Cement
22. General Characteristic of Group 13 (IIIA) Elements: Boron Group Elements
23. Chemistry of Group 13 (IIIA) Elements, their Compounds and Ceramics Industry
24. Hydrides of Boron: Boranes
25. General Characteristics of Group 14 (IVA) Elements: Carbon Group Elements
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27. Carbides
28. Metallic Carbonyls
29. Compounds of Silicon and Glass Industry
30. General Characteristics of Group 15 (VA) Elements: Nitrogen Group Elements
31. Fertilisers
32. Hydrides, Oxidesand Oxy Acids of Nitrogen
33. Nitrides
34. Oxides, Oxy acids, Halides and Oxyhalides of Phosphorus
35. General Characteristics of Group 16 (VIA) Elements: Oxygen Group Elements
36. Oxides, Oxy acids, Halides and Oxyhalides of Sulphur
37. General Characteristics of Group 17 (VII A) Elements: Halogens
38. Fluorine and Fluorocarbons,
39. Halogen Acids: Hydracids or Hydrogen Halides
40. Binary Halogen – Oxygen Compounds and Oxyacids of Halogens
41. Interhalogen Compounds, Polyhalides and Pseudohalogens
42. Elements of Group 18 (Zero): Noble Gases
43. Coordination Compounds
44. Characteristics of d-Block Elements (Transition and Inner-Transition Elements)
45. Group Discussion of d-Block Elements
46. Extraction, Properties and uses of Some d-and f-Block Elements
47. Some Compounds of d-and-f Block Elements
- Subject
- Index

**R D Madan,** Formerly Reader, Department of Chemistry, N.R.E.C. College, Khurja.

LOW PRICED STUDENTS' PAPERBACK EDITION




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Arun Bahl & B.S. Bahl

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Instructor's Resource available

**ISBN: 9789355012746 | Price: ₹ 1595 | Pages: 1,128 | Size: 6.75" X 9.5" (Paperback)**

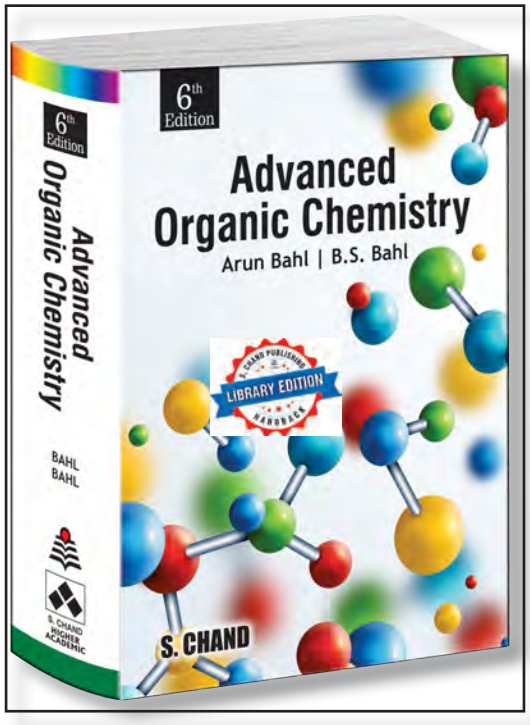
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32. Aromatic Compounds
33. Benzene and its Homologues
34. Directive Effects of Substituents
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36. Aromatic Sulfonic Acids
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38. Aromatic Amines
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46. Heterocyclic Compounds
47. Alkaloids
48. Terpenes
49. Synthetic Polymers
50. Vitamins, Steroids and Antibiotics
51. Predicting Trends
52. Multistep Synthesis
53. 500 New Multiple Choice Questions

- *Glossary*
- *Index*

B S Bahl, Principal and Head of the Department, Chemistry, DAV College, Jalandhar.

**Arun Bahl,** Formerly Professor of Chemistry, Panjab University, Chandigarh..




# Advanced Organic Chemistry, (Library Edition)

Arun Bahl & B.S. Bahl

## About the Book

The Advanced Organic Chemistry has been written for B.Sc.(Hons.) and M.Sc. Students. It has been a national best-seller for more than 30 years. A lot of things have changed since them. We have also changed with every edition so that 30 years. This was the first book on the subject to be adopted by the National Book Trust of India (NBT). This text is especially written with these students in mind. The language is simple, explanations clear, and presentation very systematic. Concepts that usually confuse the students are explained in a step-by-step manner. Our commitment to quality is total!

## Key Features

- Step-by-step mechanisms and over 1800 solved problems to help students in effective understanding of the concepts
- More than 2100 chapter-end questions with answers to test and strengthen student's learning
- First book on the subject to be adopted by the National Book Trust of India (NBT)

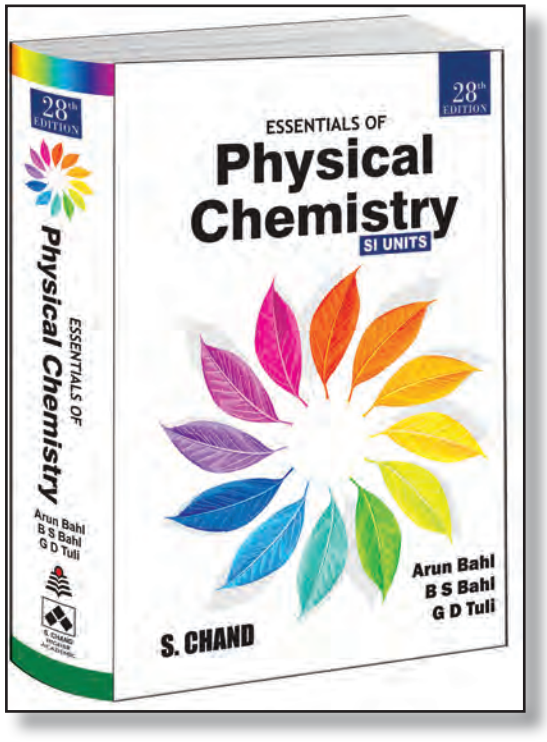
**ISBN: 9789355010049 | Price: ₹ 1695 | Pages: 1,496 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Introduction
2. Structure of Organic Molecules
3. Organic Reaction Mechanisms
4. Isomerism and Stereochemistry
5. Spectroscopy
6. Alkanes
7. Cycloalkanes
8. Petroleum, Petrochemicals and Alternative Fuels
9. Alkenes and Dienes
10. Alkynes
11. Alkyl Halides
12. Organometallic Compounds
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14. Polyhydric Alcohols
15. Ethers and Epoxides
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17. Aldehyde and Ketones
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19. Diacids and Substituted Acids
20. Carboxylic Acid Derivatives
21. Active Methylene Compounds
22. Lipids
23. Amines
24. Cyan Compounds
25. Derivatives of Carbonic Acid
26. Nitroalkanes, Diazoalkanes and Azides
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33. Aromatic Nitro Compounds
34. Aromatic Amines and Diazonium Salts,
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37. Aromatic Carboxylic Acids and Their Derivatives
38. Color, Dyes and Pigments
39. Polynuclear Aromatic Hydrocarbons
40. Heterocyclic Compounds
41. Ureides and Purines,
42. Alkaloids
43. Terpenes
44. Synthetic Polymers
- Glossary
- Index

B S Bahl, Principal and Head of the Department, Chemistry, DAV College, Jalandhar.

**Arun Bahl,** Formerly Professor of Chemistry, Panjab University, Chandigarh..




# Essentials of Physical Chemistry: Library Edition, 28/e

Arun Bahl, B S Bahl & G D Tuli

## About the Book

Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions, illustrations and exercises. With clear explanation, systematic presentation, and scientific accuracy, the book not only helps the students clear misconceptions about the basic concepts but also enhances students' ability to analyse and systematically solve problems. This bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations.

## Key Features

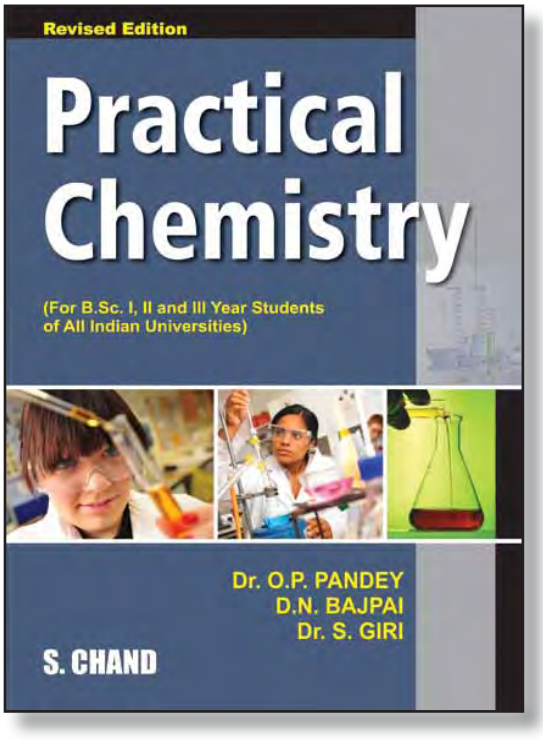
- SI Units have been used throughout the text
- Numerous figures and solved problems have been provided for effective understanding of the concepts
- More than 1500 university examination questions and 1700+ multiple choice questions have been provided to test understanding of the concepts

**ISBN: 9789355012760 | Price: ₹ 1595 | Pages: 1,240 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Structure of Atom–Classical Mechanics
2. Structure of Atom–Wave Mechanical Approach
3. Isotopes, Isobars and Isotones
4. Nuclear Chemistry
5. Chemical Bonding–Lewis Theory
6. Chemical Bonding–Orbital Theory
7. First Law of Thermodynamics—Basic Concepts
8. Thermochemistry
9. Second Law of Thermodynamics
10. Gaseous State
11. Liquid State
12. Solid State
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14. Solutions
15. Theory of Dilute Solutions
16. Osmosis and Osmotic Pressure
17. Chemical Equilibrium
18. Distribution Law
19. The Phase Rule
20. Chemical Kinetics
21. Catalysis
22. Colloids
23. Adsorption
24. Electrolysis and Electrical Conductance
25. Theory of Electrolytic Dissociation
26. Ionic Equilibria Solubility Product
27. Acids and Bases
28. Salt Hydrolysis
29. Electromotive Force
30. Photochemistry
31. SI Units
32. Mathematical Concepts
• Appendix
• Index

**Arun Bahl**, Professor of Organic Chemistry, Panjab University, Chandigarh
**B S Bahl**, Formerly Head of Postgraduate Department of Chemistry, DAV College, Jalandhar
**G D Tuli**, Formerly Principal, Shyam Lal College, University of Delhi




# Practical Chemistry

O.P. Pandey, D.N. Bajapi & S.Giri

Instructor's Resource available

## About the Book

The book serves as a self-help for Practical Chemistry as it presents a clear understanding of the methods and procedures used to test a particular sample. It aims to educate the students by developing a habit of scientific reasoning among them and making them familiar with technicalities involved in analytical procedures so that they are able to provide promising results with utmost clarity. Difficult concepts have been presented in a simple and lucid manner to make the book useful for the entire undergraduate programme.

## Key Features

- Three new chapters as per examination requirements, Conductometric Titrations, Potentiometric Titrations, and Determination of Molecular Weight
- Important additions in two chapters, Few Inorganic Preparations and Few organic Preparations
- A separate chapter on Viva voce questions to help students prepare for practical examination

**ISBN: 9788121908122 | Code: 1004E00033 | Price: ₹ 350 | Pages: 296 | Size: 6.75" X 9.5" (Paperback)**

## Contents

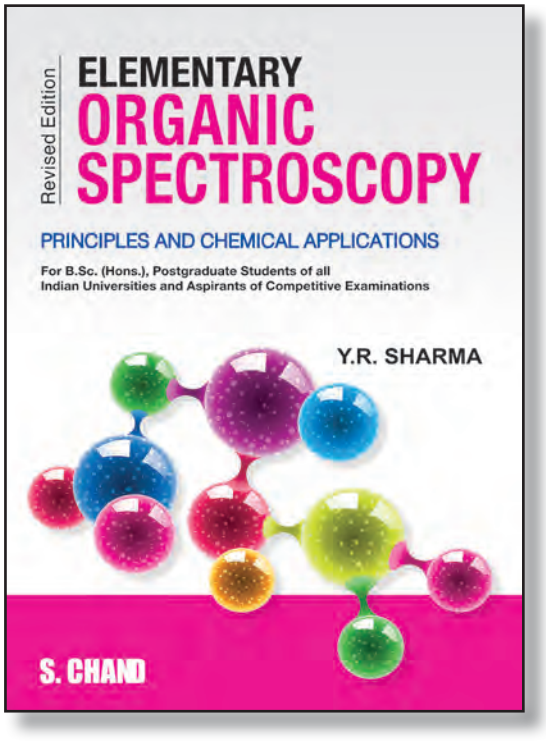
1. Elementary Idea in Analysis
2. Analysis of Acid Readicals (Macro Method)
3. Analysis of Basic Radicals as Cations (Macro Method)
4. Analysis of Insoluble Compounds
5. Some Useful Tests Beyond Systematic Analysis
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16. Potentiometric Titrations
17. Molecular weight Determination
18. Viva-Voce

- *Appendices*
- *Logarithms Tables*

**O P Pandey,** Formerly Principal, B.B.N. Degree College, Kanpur.

**D N Bajpai,** Formerly Reader, Department of Chemistry, B.S.N.V. Post Graduate College, Lucknow.

**S Giri,** Formerly Professor and Head of Department - Chemistry, University of Gorakhpur, Gorakhpur.




# Elementary Organic Spectroscopy

Y.R. Sharma

## About the Book

This textbook aims to provide a broad survey of the methods and their application on selected representative molecules providing an effective insight to the absorption techniques in organic spectroscopy. It introduces readers to spectra and basic theoretical concepts in spectroscopic methods and updates on the latest advances in spectroscopy. This book can be used as a primary text or as a supplemental text with organic chemistry.

Multicolour Edition

Instructor's Resource available

## Key Features

- Inclusion of a new chapter on Raman Spectroscopy
- Multiple choice questions and numerical problems to test effective understanding
- Spectral diagrams have been provided at relevant places to facilitate understanding of the concepts.

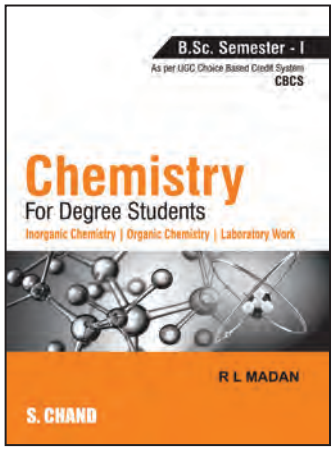
**ISBN: 9788121928847 | Code: 1004C00305 | Price: ₹ 650 | Pages: 384 | Size: 6.75" X 9.5" (Paperback)**

## Contents

1. Introduction
2. Ultra-Violet and Visible Spectroscopy
3. Infra-Red Spectroscopy
4. Raman Spectroscopy
5. Nuclear Magnetic Resonance Spectroscopy
6. Numerical Problems on UV; IR and NMR
7. Mass Spectrometry

- *Multiple Choice Question*
- *Answers to Problems*
- *Subject Index*
- *Compound Index*

**Y R Sharma,** Post Graduate Department of Chemistry, D A V College, Jalandhar.




## Chemistry for Degree Students, B.Sc. Semester I

R L Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Important topics such as atomic structure, chemical bonding, molecular structure, fundamentals of organic chemistry, stereochemistry and aliphatic hydrocarbons are aptly discussed to give an overview of inorganic and organic chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

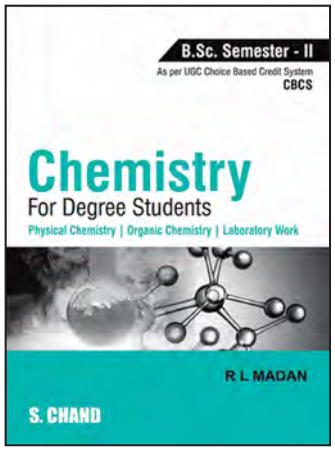
- Highlights important laws, concepts and principles for a more focussed learning
- Interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having more than 900 questions, to enhance and strengthen learning of the students

**ISBN: 9789352533039 | Price: ₹ 495 | Pages: 488 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Inorganic Chemistry: 1. Atomic Structure, 2. Ionic Bonding, 3. Covalent Bonding, Organic Chemistry: 1. Fundamentals of Organic Chemistry, 2. Benzenoids and Aromaticity, 3. Stereochemistry of Organic Compounds, 4. Alkanes, 5. Alkenes, 6. Alkynes, Laboratory Work: 1. Volumetric Analysis—Apparatus and Techniques, 2. Acid-alkali Titrations, 3. Potassium Permanganate Titrations, 4. Potassium Dichromate Titrations, 5. Iodine Titrations, 6. Detection of Elements, 7. Paper Chromatography

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.




## Chemistry for Degree Students, B.Sc. Semester II

R L Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Important topics such as chemical energetics, chemical/ionic equilibrium, aromatic hydrocarbons, alkyl/aryl halides, alcohols, phenols, ethers, aldehydes and ketones are aptly discussed to give an overview of physical and organic chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

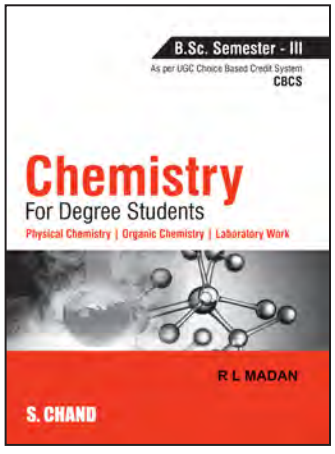
- Highlights important laws, concepts and principles for a more focussed learning
- Over 250 interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having more than 800 questions, to enhance and strengthen learning of the students

**ISBN: 9789352533046 | Price: ₹ 450 | Pages: 440 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Physical Chemistry: 1. Chemical Energetics, 2. Chemical Equilibrium, 3. Ionic Equilibrium, Organic Chemistry: 1. Aromatic Hydrocarbons, 2. Alkyl and Aryl Halides, 3. Alcohols, 4. Phenols, 5. Ethers (Aliphatic and Aromatic), 6. Aldehydes and Ketones, Laboratory Work: 1. Thermochemistry, 2. Ionic Equilibria, 3. Purification of Organic Compounds by Crystallization, 4. Distillation, 5. Determination of Melting and Boiling Points, 6. Organic Preparations

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.




## Chemistry for Degree Students, B.Sc. Semester III

As Per CBCS

R L Madan

### About the Book

This textbook has been designed to meet the needs of B.Sc. Third Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Important topics such as solutions, phase equilibrium, conductance, electrochemistry, carboxylic acids, amines, diazonium salts, amino acids, peptides, proteins and carbohydrates are aptly discussed to give an overview of physical and organic chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

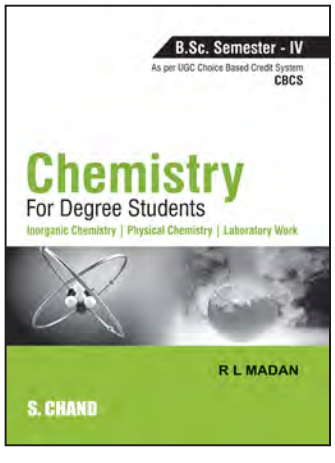
- Highlights important laws, concepts and principles for a more focussed learning
- Over 450 interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having more than 900 questions, to enhance and strengthen learning of the students

**ISBN: 9789352535200 | Price: ₹ 495 | Pages: 528 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Physical Chemistry: 1. Solutions, 2. Phase Equilibrium, 3. Conductance, 4. Electrochemistry, 5. Distribution Law, Organic Chemistry: 1. Carboxylic Acids, 2. Carboxylic Acid Derivatives, 3. Amines and Diazonium Salts, 4. Amino Acids, Peptides and Proteins, 5. Carbohydrates, Laboratory Work: 1. Distribution Law, 2. Phase Equilibria, 3. Conductance, 4. Potentiometry, 5. Qualitative Organic Analysis, 6. Analysis of Amino Acids and Carbohydrates

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.




## Chemistry for Degree Students, B.Sc. Semester IV

As Per CBCS

R L Madan

### About the Book

This textbook has been designed to meet the needs of B.Sc. Fourth Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Important topics such as transition elements, coordination chemistry, crystal field theory, kinetic theory of gases, liquids, solids and chemical kinetics are aptly discussed to give an overview of inorganic and physical chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

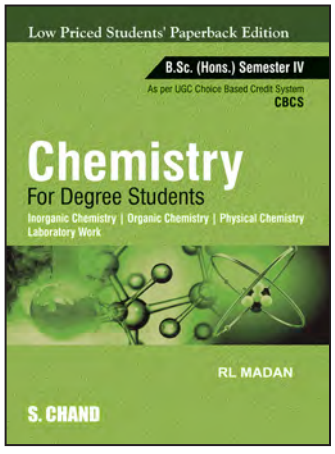
- Highlights important laws, concepts and principles for a more focussed learning
- Over 500 interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having more than 800 questions, to enhance and strengthen learning of the students

**ISBN: 9789352535194 | Code: 10HE000015 | Price: ₹ 495 | Pages: 512 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Inorganic Chemistry: 1. Transition Elements (3*d* Series), 2. Lanthanoids, 3. Actinoids, 4. Coordination Chemistry-I (Valence Bond Theory), 5. Coordination Chemistry –II (Crystal Field Theory), Physical Chemistry: 1. Kinetic Theory of Gases, 2. Liquids, 3. Solids, 4. Chemical Kinetics, Laboratory Work: 1. Qualitative Inorganic Analysis (Macro-Analysis), 2. Analysis of Acid Radicals, 3. Interference among Acid Radicals, 4. Analysis of Basic Radicals, 5. Semi-Micro Analysis, 6. Gravimetric Analysis, 7. Photocolorimetry, 8. Edta Titrations, 9. Flame Photometry, 10. Surface Tension of Liquids, 11. Viscosity of Liquids, 12. Chemical Kinetics

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.




## Chemistry For Degree Students Semester IV Inorganic Chemistry | Organic Chemistry | Physical Chemistry | Laboratory Work

As Per CBCS

R L Madan

### About the Book

"This textbook has been designed for B.Sc. (Hons.) Fourth Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). Maintaining the traditional approach to the subject, this textbook lucidly explains the basics of Inorganic, Organic and Physical Chemistry. Also, the book covers important topics such as Coordination Chemistry, Transition Elements, Lanthanoids, Actinoids, Bioinorganic Chemistry, Nitrogen Containing Functional Groups, Polynuclear Hydrocarbons, Heterocyclic Compounds, Alkaloids and Terpenes, Conductance, Electrochemistry, Electric and Magnetic Properties of Atoms and Molecules. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

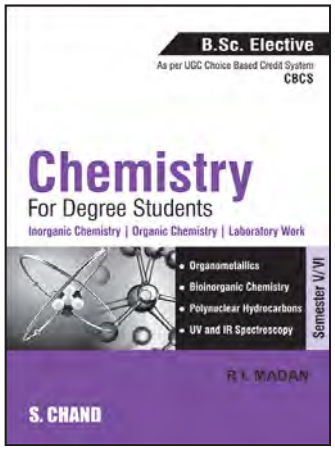
- Highlights important laws, concepts, and principles for a more focused learning
- Close to 350 examples and well-drawn illustrations have been provided to make the reading interesting and engaging
- Close to 700 exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

**ISBN: 9789355016553 | Price: ₹ 675 | Pages: 680 | Size: 6.75" X 9.5" (Paperback)**

### Contents

SECTION I: INORGANIC CHEMISTRY, 1. Coordination Chemistry I, 2. Coordination Chemistry II, 3. Transition Elements, 4. Lanthanoids, 5. Actinoids, 6. Bioinorganic Chemistry, SECTION II: ORGANIC CHEMISTRY, 1. Nitrogen Containing Functional Groups (Nitro Compounds, Amino ,Compounds and Diazonium Salts), 2. Polynuclear Hydrocarbons, 3. Heterocyclic Compounds, 4. Alkaloids and Terpenes , SECTION III: PHYSICAL CHEMISTRY, 1. Conductance, 2. Electrochemistry, 3. Electric and Magnetic Properties of Atoms and Molecules , SECTION IV: LABORATORY WORK, 1. Gravimetric Analysis, 2. Inorganic Preparations, 3. Paper Chromatography, 4. Qualitative Organic Analysis, 5. Conductometry,6. Potentiometry

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## Chemistry for Degree Students, B.Sc. Semester V/VI (Elective)

As Per CBCS

R L Madan

### About the Book

This textbook has been designed to meet the needs of B.Sc. students of Chemistry as per the UGC Choice Based Credit System (CBCS). This book covers one of the discipline specific elective (DSE) papers, covering topics such as *Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV & IR Spectroscopy*. With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

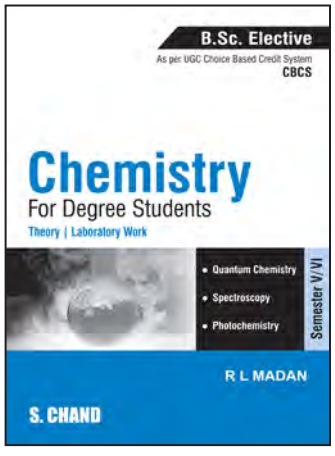
- Highlights important laws, concepts and principles for a more focussed learning
- Over 325 interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having more than 500 questions, to enhance and strengthen learning of the students

**ISBN: 9789352535859 | Price: ₹ 350 | Pages: 336 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Inorganic Chemistry: 1. Chemistry of 3d Metals, 2. Organometallic Compounds, 3. Bioinorganic Chemistry, Organic Chemistry: 1. Polynuclear Aromatic Compounds, 2. Heteronuclear Aromatic Compounds, 3. Active Methylene Compounds (Acetoacetic and Malonic Ester), 4. Ultraviolet Spectroscopy, 5. Infrared Absorption Spectroscopy, Laboratory Work: 1. Paper Chromatography, 2. Preparation of Complex Compounds, 3. Qualitative Organic Analysis

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.




## Chemistry for Degree Students, B.Sc. Semester V/VI (Elective)

R L Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. students of Chemistry as per the UGC Choice Based Credit System (CBCS). It covers one of the discipline specific elective (DSE) papers, discussing topics such as *Quantum Chemistry, Spectroscopy and Photochemistry*. With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

- Highlights important laws, concepts and principles for a more focussed learning
- Over 250 interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having more than 250 questions, to enhance and strengthen learning of the students

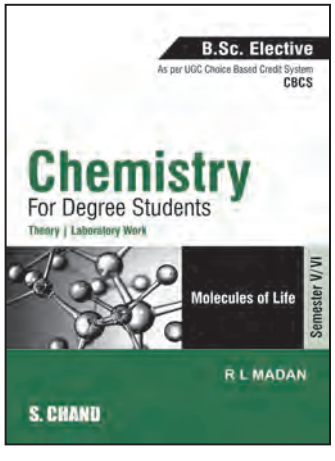
**ISBN: 9789352830435 | Code: 10HE000037 | Price: ₹ 300 | Pages: 280 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Theory: 1. Quantum Chemistry-I, 2. Quantum Chemistry-II (Chemical Bonding), 3. Molecular Spectroscopy, 4. Photochemistryl, Laboratory Work: 1. Ultraviolet/ Visible Spectroscopy, 2. Colorimetry, 3. Vibrational-Rotational Spectrum of HCl (g)

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.

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## Chemistry for Degree Students, B.Sc. Semester V/VI (Elective)

R L Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. students of Chemistry as per the UGC Choice Based Credit System (CBCS). It is for one of the discipline specific elective (DSE) papers, covering concept of *Molecules of Life*, discussing topics such as Carbohydrates, Proteins, Enzymes, Nucleic Acids, Lipids and Energy in Biosystems. With its traditional approach to the subject, this textbook lucidly explains principles of chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

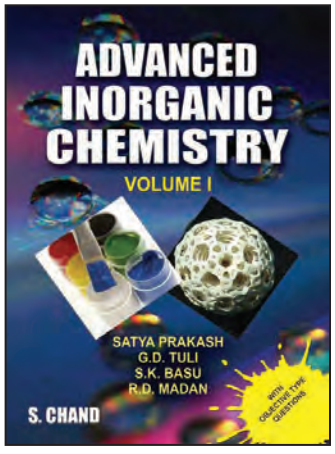
- Highlights important laws, concepts and principles for a more focussed learning
- Enriched with interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, having close to 450 questions, to enhance and strengthen learning of the students

**ISBN: 9789352830428 | Code: 10HE000063 | Price: ₹ 250 | Pages: 200 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Theory: 1. Carbohydrates, 2. Amino Acids, Peptides and Proteins, 3. Enzymes and Correlation with Drug Action, 4. Nucleic Acids, 5. Lipids, 6. Concept of Energy of Biosystems, Laboratory Work: 1. Analysis of Amino Acids, 2. Analysis of Carbohydrates, 3. Analysis of Oils and Fats, 4. Extraction of DNA from Onion/Cauliflower, 5. Thin Layer Chromatography • Experiment-1: Determine the number of components present in the given organic mixture by thin layer chromatography • Experiment-2: Synthesise aspirin by acetylation of salicylic acid and compare it with the ingradient of an aspirin tablet by TLC

**R L Madan,** Formerly Principal, Government College, Panchkula and Former Head of the Chemistry Department, Government Postgraduate College, Faridabad.




## Advanced Inorganic Chemistry-Volume I

Satya Prakash, G D Tuli, S K Basu & R D Madan

### About the Book

*Advanced Inorganic Chemistry - Volume I* is a concise book on basic concepts of inorganic chemistry. It acquaints the students with the basic principles of chemistry and further dwells into the chemistry of main group elements and their compounds. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

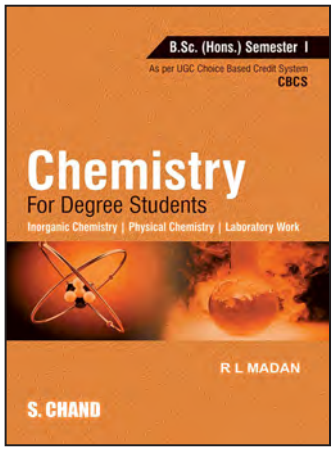
### Key Features

- More than 350 figures to facilitate understanding of concepts
- Over 700 questions from various university examinations and close to 900 multiple choice questions at the end of the book to test understanding of the concepts

**ISBN: 9788121902632 | Code: 1004B00231 | Price: ₹ 850 | Pages: 1,416 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Part-I: Basic Principles of Chemistry: 1. Quantum Mechanical Concepts of Atomic Structure: Rutherford's and Bohr's Atomic Models, 2. Wave Mechanical Concepts of Atomic Structure, 3. Periodic Table, 4. Electronic Configuration of Elements, 5. Atomic Properties: Periodic Properties, 6. Radioactivity, 7. Isotopes, Isotones, Isobars and Nuclear Isomers, 8. Nuclear Chemistry: Chemistry of the Nucleus, 9. Nuclear Reactions, 10. Different Types of Chemical Bonds, 11. Molecular Orbital Theory of Simple Diatomic Molecules and Ions, 12. Valence – Shell Electron – Pair Repulsion (VSEPR) Theory: Shape of Molecules and Ions, 13. Hybridization and its Different Types, 14. Structure and Shape of Molecules / Ions Containing only Sigma Bonds, 15. Structure and Shape of Molecules/ Ions Containing Sigma as well as Pi Bonds, 16. Structure of Solids, 17. Redox Reactions, 18. Electrode Potentials and Electrochemical Series, 19. Concepts of Acids and Bases, 20. General Principles of Extraction of Metals and Furnances, 21. Nomenclature of Inorganic Compounds, Part-II: Chemistry of Main Group Elements and Their Compounds (s-and p-block Elements): 22. General Characteristics of Main Group Elements (s-and p-block elements), 23. Group Discussion of Main Group Elements (s-and p-block elements), 24. Occurrence, Extraction / Isolation, Properties and Uses of some main Group Elements, 25. Hydrides of Main Group Elements, 26. Carbides of Main Group Elements, 27. Nitrides of Main Group Elements, 28. Oxides of Main Group Elements, 29. Halides and Oxy-halides of Main Group Elements, 30. Oxy-acids of Boron (Boric Acids) and their Salts, 31. Oxy-acids of Nitrogen and their Salts, 32. Oxy-acids of Phosphorus and their Salts, 33. Oxy-acids of Sulphur and their Salts , 34. Oxy-acids of Halogens and their Salts, 35. Fixation of Nitrogen and Fertilisers, 36. Inorganic Polymers, 37. Important Compounds of Main Group Elements, 38. Miscellaneous Topics • *Multiple Choice Questions* • *Subject Index*




## Chemistry for Degree Students B.Sc. (Honours) Semester I, 1/e

R L Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B. Sc. (Honours) First Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). Maintaining the traditional approach to the subject, this textbook lucidly explains the basics of Inorganic and Physical Chemistry. Important topics such as atomic structure, periodicity of elements, chemical bonding and oxidation- reduction reactions, gaseous state, liquid state, solid state and ionic equilibrium are aptly discussed to give an overview of inorganic and physical chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

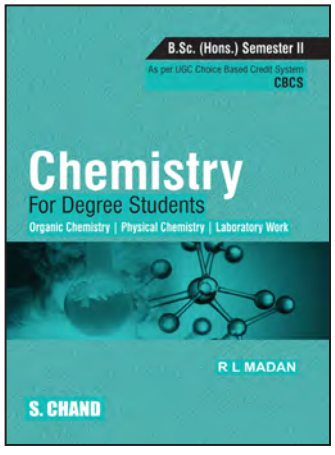
### Key Features

- Highlights important laws, concepts and principles for a more focused learning
- Interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

**ISBN: 9789355010360 | Code: 9789355010360 | Price: ₹ 495 | Pages: 568 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Section I: Inorganic Chemistry, 1: Atomic Structure, 2: Periodicity of Elements, 3: Ionic Bonding, 4: Covalent Bonding, 5: Metallic Bond and Weak Chemical Forces, 6: Oxidation and Reduction, 7: Volumetric Analysis, Section II: Physical Chemistry, 1: Gaseous State, 2: Liquid State, 3: Solid State, 4: Ionic Equilibrium, Section III: Laboratory Work, 1: Titrimetric Analysis, 2: Acid-Base Titration, 3: Potassium Permanganate Titrations,4: Potassium Dichromate Titrations, 5: Surface Tension of Liquids, 6: Viscosity of Liquids, 7: Cubic Crystalline System, 8: Buffer Solutions, 9: pH Metric Acid-Base Titrations




## Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e

R L Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. (Honours) Second Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). Maintaining the traditional approach to the subject, this textbook lucidly explains the basics of Organic and Physical Chemistry. Important topics such as alkanes, alkenes, alkynes, stereochemistry, aliphatic hydrocarbons, thermochemistry, chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

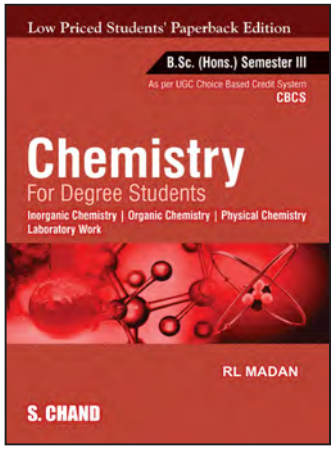
### Key Features

- Highlights important laws, concepts and principles for a more focused learning
- Interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

**ISBN: 9789355010377 | Code: 9789355010377 | Price: ₹ 595 | Pages: 632 | Size: 6.75" X 9.5" (Paperback)**

### Contents

**Section I: Organic Chemistry**, 1: Basics of Organic Chemistry I, 2: Basics of Organic Chemistry II, 3: Stereochemistry, 4: Alkanes (Carbon-Carbon Sigma Bonds), 5: Alkenes (Carbon-Carbon Pi Bonds), 6: Alkynes, 7: Cycloalkanes 8: Aromatic Hydrocarbons, Section II: Physical Chemistry, 1: Chemical Thermodynamics - I (Zeroth and First Laws of Thermodynamics and Thermochemistry), 2: Chemical Thermodynamics - II (Second and Third Laws of Thermodynamics and Partial Molar Properties), 3: Chemical Equilibrium, 4: Solutions and Colligative Properties, Section III: Laboratory Work, 1: Calibration of a Thermometer, 2: Purification of Organic Compounds by Crystallization, 3: Determination of Melting and Boiling Points, 4: Paper Chromatography, 5: Thin Layer Chromatography,6: Thermochemistry




## Chemistry for Degree Students B.Sc. (Honours) Semester III, 1/e

RL Madan

As Per CBCS

### About the Book

This textbook has been designed to meet the needs of B.Sc. (Honours) Third Semester students of Chemistry as per the UGC Choice Based Credit System (CBCS). Maintaining the traditional approach to the subject, this textbook lucidly explains the basics of Inorganic, Organic and Physical Chemistry. Important topics such as acid & bases, chemistry of s & p block elements, alcohols, phenols, ethers & epoxides, phase equilibrium and chemical kinetics are aptly discussed to give an overview of inorganic, organic and physical chemistry. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

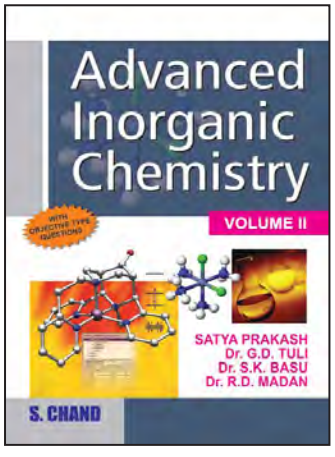
### Key Features

- Highlights important laws, concepts and principles for a more focused learning
- Interesting examples and illustrations provided throughout the text
- Engaging chapter-end exercises, covering objective and subjective questions have been provided to enhance and strengthen learning of the students

**ISBN: 9789355011800 | Price: ₹ 515 | Pages: 824 | Size: 6.5" X 9.25" (Paperback)**

### Contents

SECTION I: INORGANIC CHEMISTRY, 1: General Principles of Metallurgy, 2: Acids and Bases, 3: Chemistry of s- and p-block Elements, 4: Noble Gases 5: Inorganic Polymers, SECTION II: ORGANIC CHEMISTRY, 1: Alkyl and Aryl Halides, 2: Organometallic Compounds, 3: Alcohols, 4: Phenols, 5: Ethers and Epoxides, 6: Aldehydes and Ketones, 7: Active Methylene Compounds, 8: Carboxylic Acids, 9: Hydroxy, Unsaturated and Dicarboxylic Acids, 10: Carboxylic Acid Derivatives, 11: Sulphur Containing Compounds, SECTION III: PHYSICAL CHEMISTRY, 1: Phase Equilibrium, 2: Binary Solutions, 3: Distribution Law, 4: Chemical Kinetics, 5: Catalysis, 6: Surface Chemistry (Adsorption), SECTION IV: LABORATORY WORK, 1: Iodine Titrations, 2: Inorganic Preparations, 3: Tests for Functional Groups, 4: Organic Preparations, 5: Phase Equilibria, 6: Distribution Law, 7: Chemical Kinetics, 8: Adsorption




## Advanced Inorganic Chemistry-Volume II

Satya Prakash, G.D. Tuli, S.K. Basu & R.D. Madan

### About the Book

*Advanced Inorganic Chemistry - Volume II* is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

### Key Features

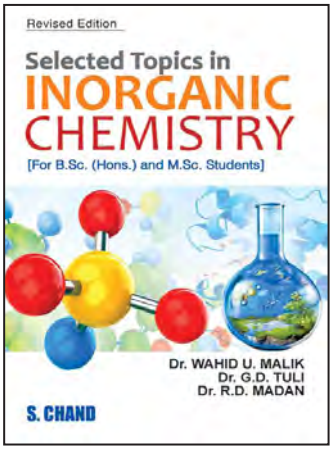
- Pedagogically strong on practical application of theory:
  - Nearly 200 typical problems and select Multiple Choice Questions with solutions
  - Over 300 questions from various university examinations
  - More than 400 objective type questions at the end of the book to test understanding of the concepts
- Nearly 300 figures and 50 tables to facilitate understanding of theory and concepts
- Three appendices at the book end comprising list of important ores, processes and compounds as ready reckoner for the users

**ISBN: 9788121917872 | Code: 1004B00232 | Price: ₹ 695 | Pages: 672 | Size: 6.75" X 9.5" (Paperback)**

### Contents

Part-I: Coordination Chemistry: 1. Basic Concepts of Coordination Chemistry, 2. Nomenclature of Coordination Compounds, 3. Werner's Theory of Coordination Compounds and Effective Atomic Number (EAN) Rule, 4. Isomerism in Coordination Compounds, 5. Nature of Metal-Ligand Bonding in Complex Compounds, Part-II: Transition Metals (*d*-Block Elements) and Their Compounds: 6. General Characteristic of Transition Metals: *d*-Block Elements, 7. Group-wise Study of the General Properties of Transition Elements (d-Block Elements), 8. Occurrence, Extraction, Properties and uses of Some Transition Metals, 9. Important Compounds of Transition Metals Part-III: Inner- Transition Elements and Their Compounds: 10. General Characteristics of Inner-Transition Elements: *f*-Block Elements (Lanthanides and Actinides), 11. Extraction, Properties and Uses of Some Inner-Transition Metals, 12. Important Compounds of Inner-Transition Elements, Part-IV: Miscellaneous Topics: 13. Transition Metals Complexes with Carbon Monoxide: Metallic Carbonyls 14. Complex Compounds Containing $NO^+$ or/ and $NO^-$ Ions as Ligands: Metallic Nitrosyl Complexes, 15. Pollution and Its Adverse Effects, 16. Organo-Metallic Compounds, 17. Chromatography, 18. Uses of Organic and Inorganic Reagents in Inorganic Analysis, 19. Role of Metal Ions in Biological Systems, 20. Non-Aqueous Solvents

**Satya Prakash,** Formerly Professor, Allahabad University, Allahabad.
**G D Tuli,** Formerly Principal, Shyam Lal College, University of Delhi, Delhi.
**S K Basu,** Formerly Professor, Banaras Hindu University, Varanasi.
**R D Madan,** Formerly Reader, Department of Chemistry, NREC College, Khurja.




## Selected Topics in Inorganic Chemistry

Wahid U Malik, G.D. Tuli & R.D. Madan

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*Selected Topics in Inorganic Chemistry* is a comprehensive textbook discussing theoretical aspects of Inorganic Chemistry. Uniqueness of the book lies in treatment of all fundamental concepts, such as, Structure of Atom, Chemical Bonding, Inner Transition Elements and Coordination Chemistry, with a modern approach. Illustration of text with relevant line diagrams and tabular presentation of data makes understanding of concepts lucid and simple.

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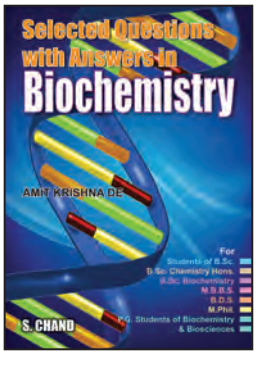
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**Wahid U Malik,** Formerly Head, Department of Chemistry, IIT Roorkee, Roorkee.

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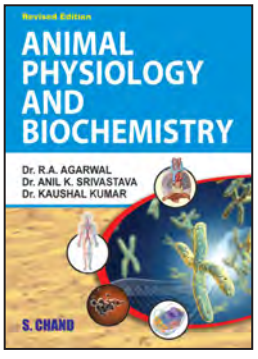

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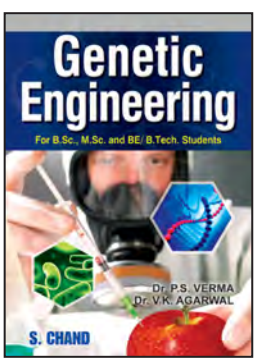

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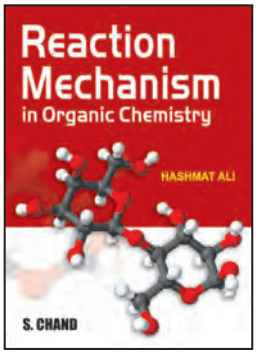
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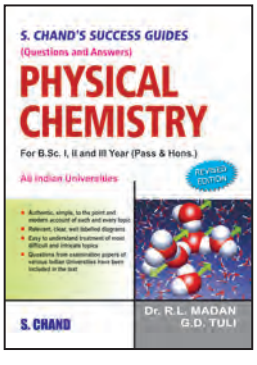

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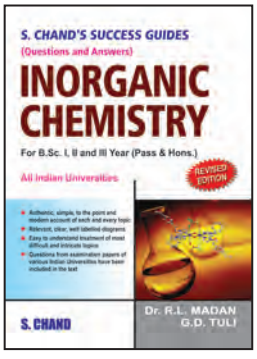

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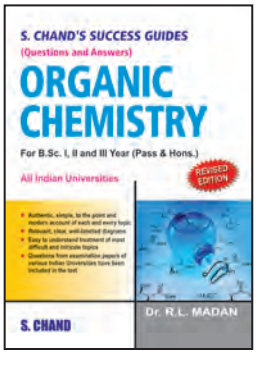

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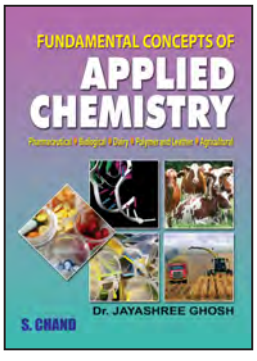
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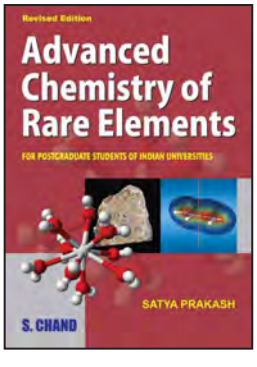

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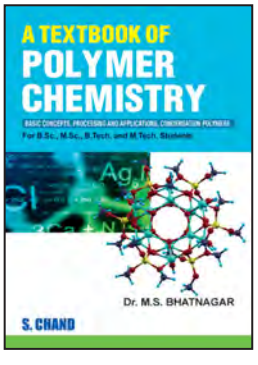

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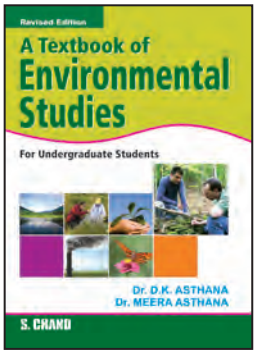

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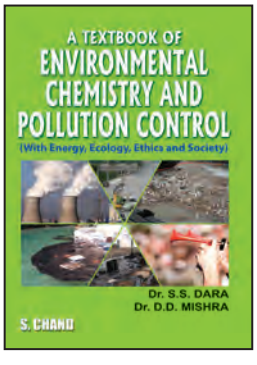

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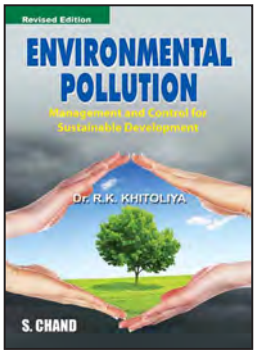

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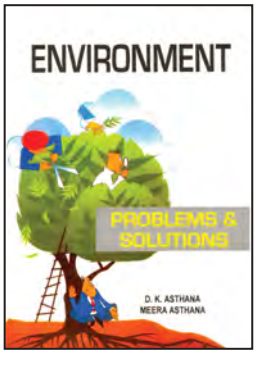

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## Environment

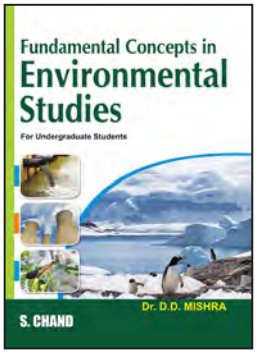
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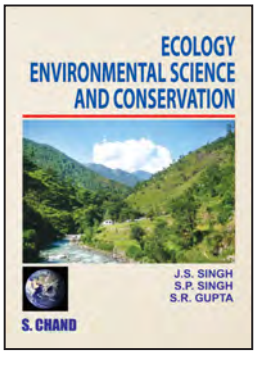

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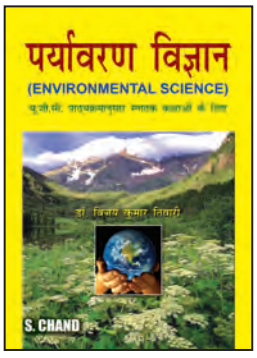

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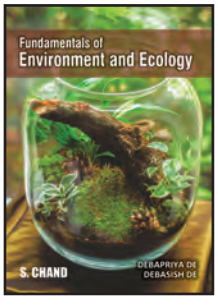

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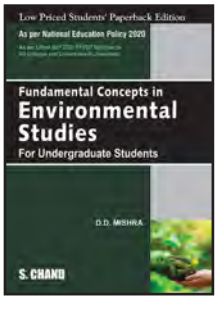

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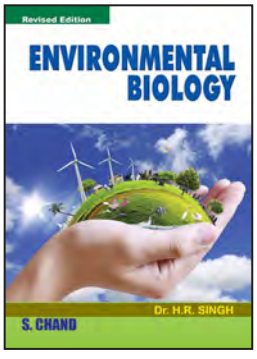
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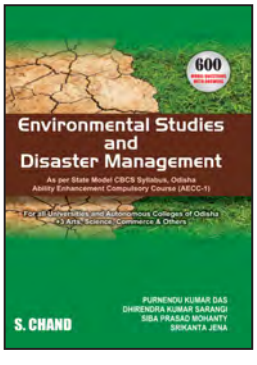

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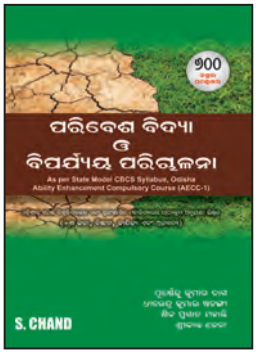
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- Book is divided in 4 units and all chapters have been written with clarity and explained to serve the academic needs of the students.
- Close to 500 questions to enhance and strengthen learning quotient
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Dr Purnendu Kumar Das obtained master's degree from Utkal University and D. Phil. from Allahabad University. With 'Fisheries' as his field of specialization, he has more than thirty-five years of undergraduate and postgraduate teaching experience in colleges of repute in Odisha. His vast knowledge base and teaching experience was of immense service in authoring several textbooks including the present volume for undergraduate students.




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Dr. Arun Luiz T

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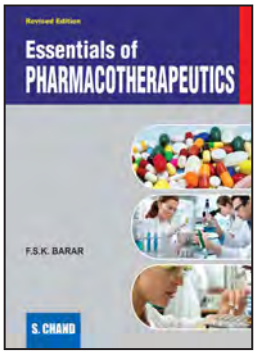
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- Topics like principles of environmental science, environmental pollution, social issues like acid rain, global warming, etc are included.
- The short questions with answers and review questions included.
- Case studies on various environmental issues have been included.

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1. Introduction to Environment, 2. Environmental Pollution, 3. Global Environmental Issues, 4. Basic Concept of Green Building and Smart Cities, 5. Concept of 4R's • Appendix

Dr. Arun Luiz T M.Sc., Ph.D. Assistant Professor, Department of Chemistry SSN College of Engineering, Kalavakkam, Kanchipuram, Tamil Nadu, India.

Dr. Mayank M Dalal M.Sc., Ph.D. Associate Professor, Department of Chemistry Member, BOS – Chemistry – GTU HOD, Applied Science & Humanities Department Sarvajanik College of Engineering & Technology, Surat, Gujarat, India



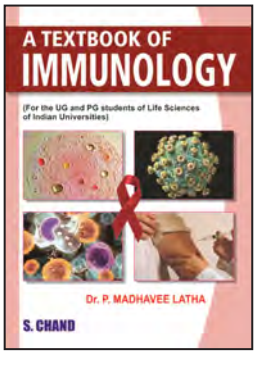

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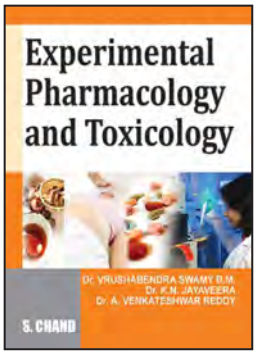

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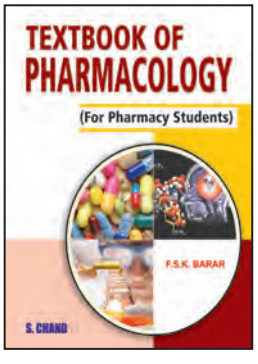

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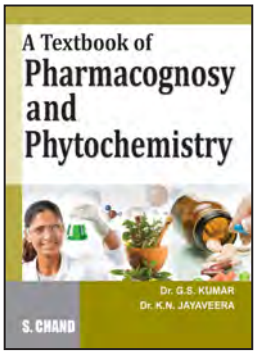

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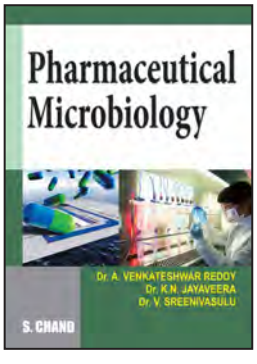

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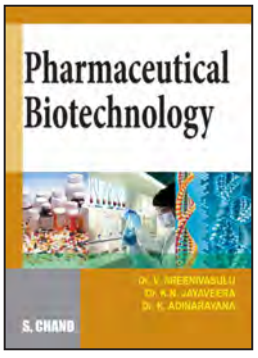

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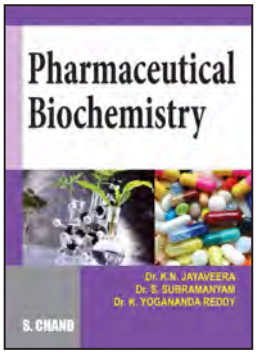

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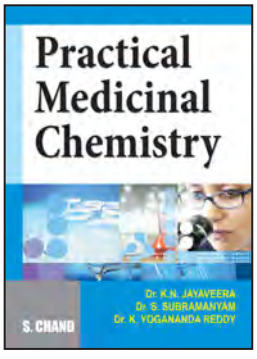

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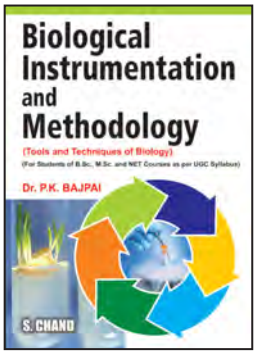

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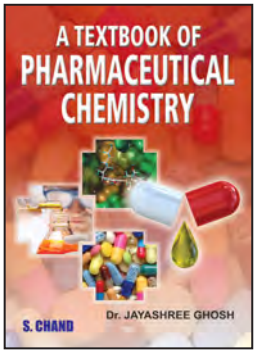

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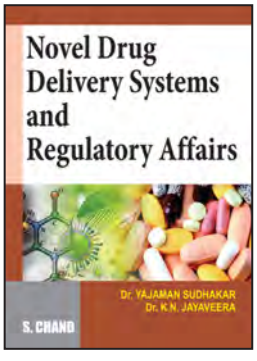

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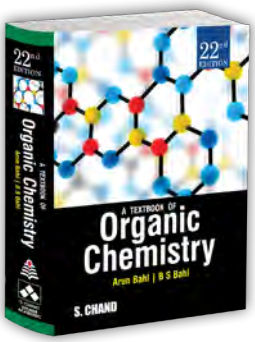
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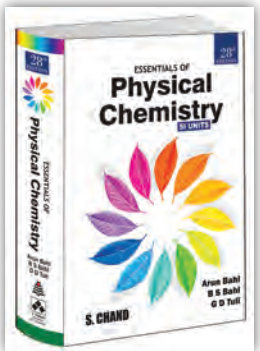

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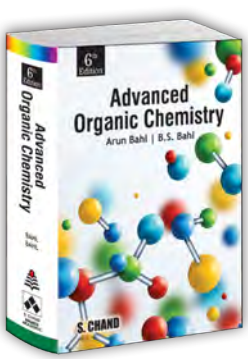



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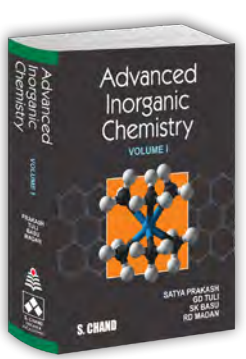

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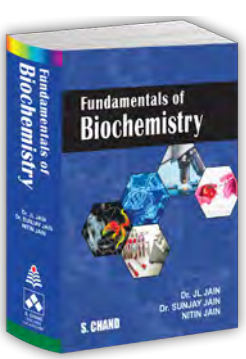

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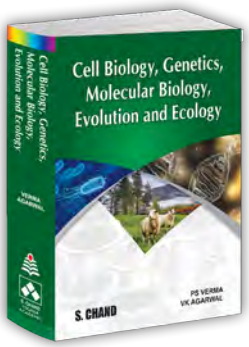
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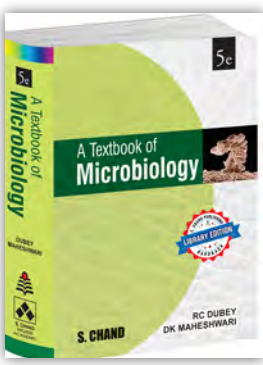



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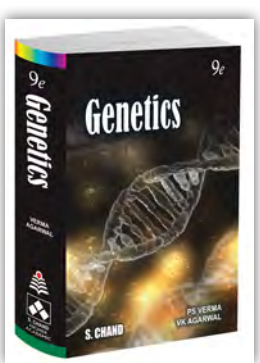



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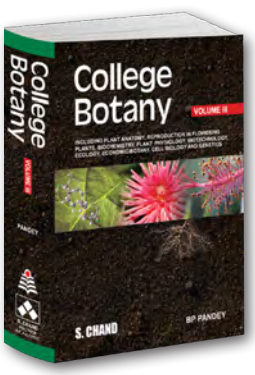

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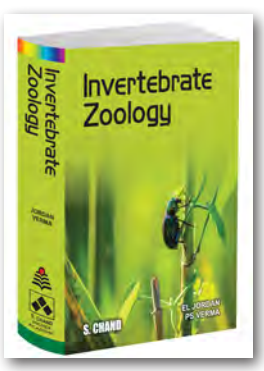
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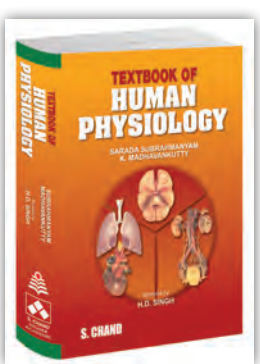

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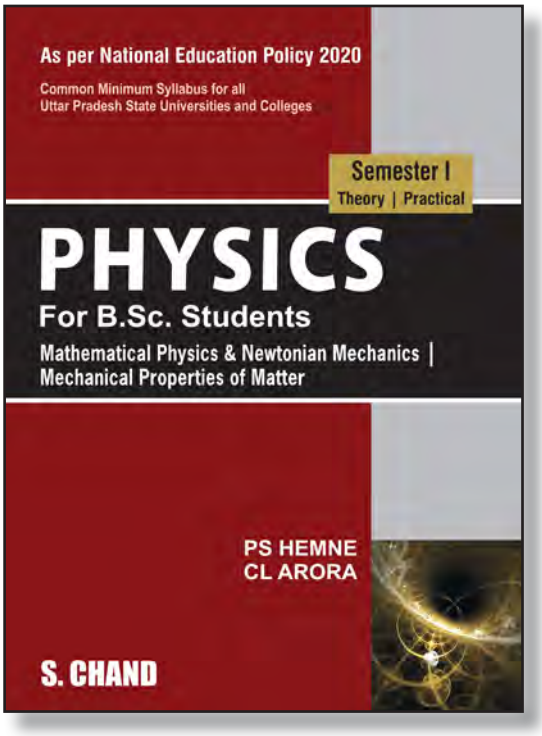
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# Physics for B.Sc. Students - Semester I NEP 2020 - Uttar Pradesh

PS Hemne & CL Arora

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This textbook has been conceptualised to meet the needs of B. Sc. First Semester students of Physics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. Designed strictly as per the syllabus, the first part of the textbook comprehensively covers the theory paper, Mathematical Physics & Newtonian Mechanics, which discusses important topics such as Newton's axioms of motion, dynamics of particles, pseudo forces and the mathematical base including tensors. The second part of the textbook systematically covers the practical paper, Mechanical Properties of Matter, to help students achieve solid conceptual understanding and learn experimental procedures.

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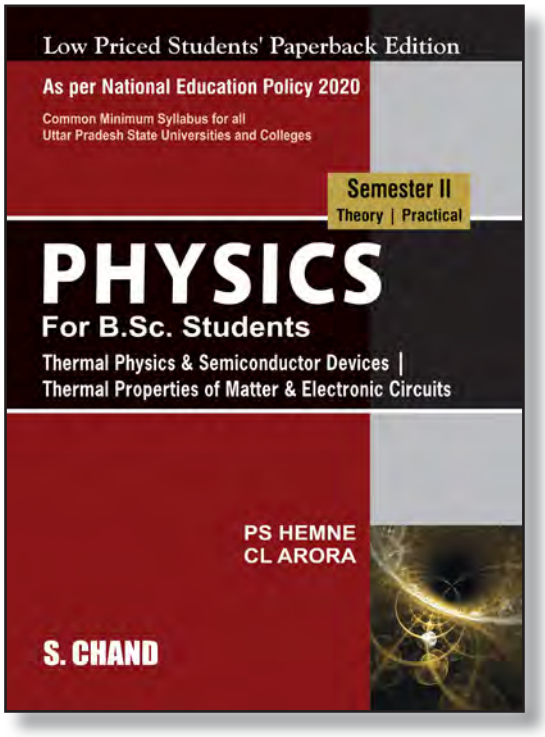
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**Dr. P. S. Hemne**, Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.

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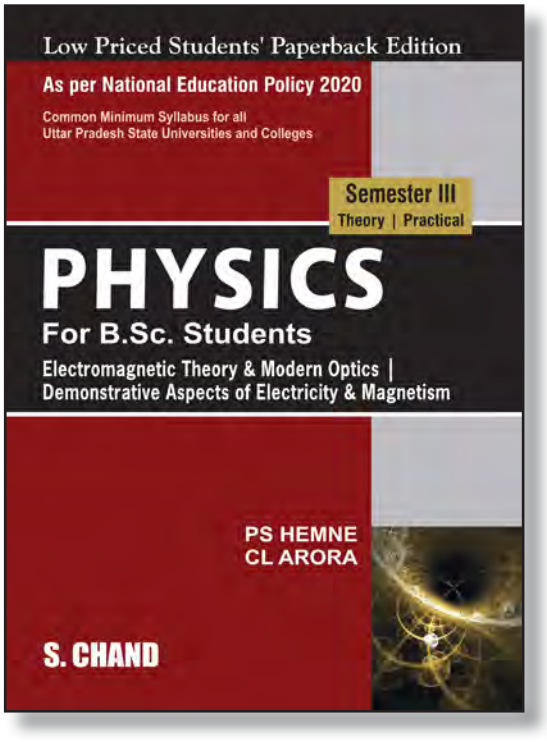
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# Physics for B.Sc. Students (Semester-III) NEP-2020-Uttar Pradesh

PS Hemne & CL Arora

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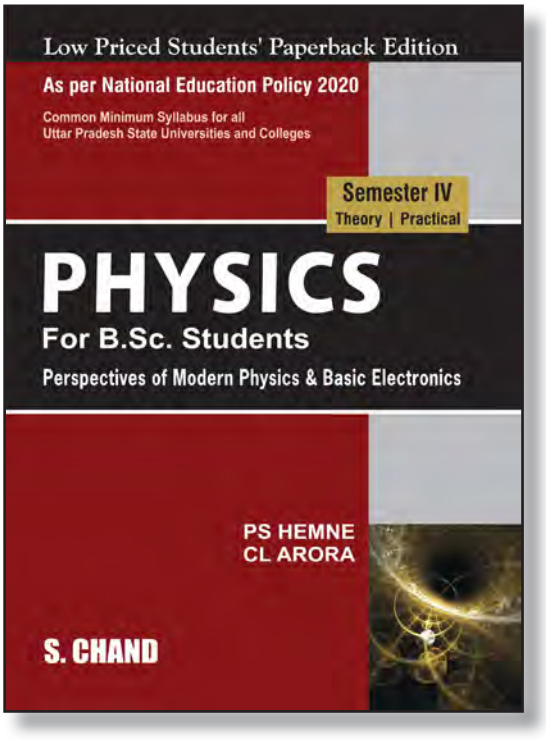
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2. Magnetostatics
3. Time Varying Electromagnetic Fields
4. Electromagnetic Waves
5. Interference
6. Diffraction
7. Polarisation
8. Lasers

LABORATORY WORK

1. Variation of Magnetic Field
2. Ballistic Galvanometer
3. Carey-Foster Bridge
4. Deflection and Vibration Magnetometer
5. Earth Inductor

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




# Physics for B.Sc. Students: Semester IV NEP-2020-Uttar Pradesh

PS Hemne & CL Arora

## About the Book

This book has been conceptualized as per the recommended National Education Policy (NEP) 2020 and as per syllabus prescribed by Universities of Uttar Pradesh for B. Sc. Students of Physics for the Fourth Semester. This textbook comprehensively covers two papers: Theory and Practical. Part A begins with Structure of Space-Time in Newtonian Mechanics, Galilean Transformation and Electromagnetism Leading to the Foundation of Theory of Relativity is studied in detail. The experimental background of Michelson-Morley Experiment and its Significance of Discarding the Existence of either developed the relativistic kinematics. Inadequacies of Classical Mechanics, Black Body Radiation, Max-Planck's Quantum Hypothesis and Concept of Matter Waves are elaborately explained in a simple manner. Part B deals with the electronics branch which covers transistor biasing, amplifiers, feedback, and oscillator circuits are lucidly explained with suitable examples.

## Key Features

- This textbook comprehensively covers the subject Perspectives of Modern Physics and Basic Electronics.
- Close to 300 figures and solved examples for easy understanding of concepts
- More than 250 questions (short- and long-answer) strengthen the well-explained theoretical concepts

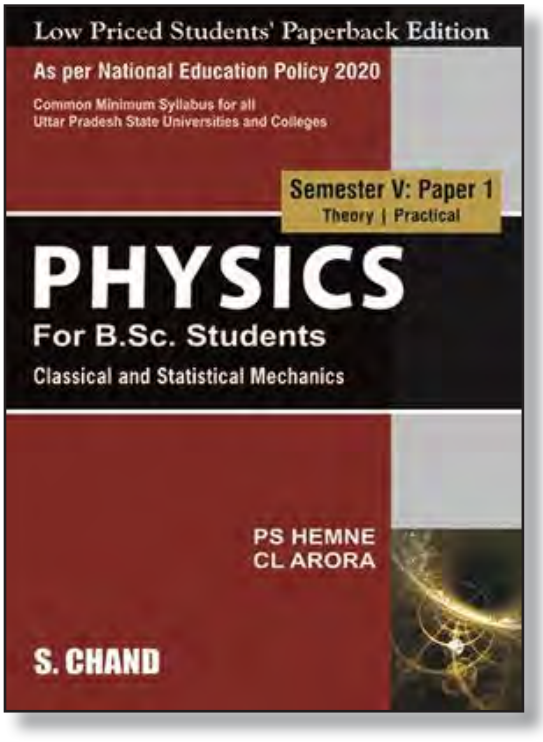
**ISBN: 9789355017017 | Price: ₹ 349 | Pages: 344 | Size: 6.5" X 9.25" (Paperback)**

## Contents

THEORY
THEORY PART
Unit I
1. Relativity - Experimental Background
Unit II
2. Relativistic Kinematics
Unit III
3. Inadequacies of Classical Mechanics
Unit IV
4. Quantum Theory: Wave-Particle Duality
Unit V
5. Transistor Biasing
Unit VI
6. Amplifiers
Unit VII
7. Feedback and Oscillator Circuits
Unit VIII
8. Introduction to Fibre Optics
PRACTICAL PART
1. Transistor Bias Stability
2. Characteristics of CE and CB Configurations
3. Frequency Response of Transistor Amplifiers
4. Feedback Amplifiers
5. Emitter Follower
6. Clippers and Clampers
7. Oscillators

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




# Physics For B.Sc. Students Semester V: Paper 1 | Classical and Statistical Mechanics | NEP 2020 For the University of Uttar Pradesh

P S Hemne & C L Arora

## About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Physics (Fifth Semester) for the Universities of Uttar Pradesh. This book comprises of two parts: Part A and Part B. Part A deals with the Introduction of Classical Mechanics. This begins with Constrained Motion followed by Lagrangian Formalism, Hamiltonian Formalism and Motion under Central forces. Part B on Introduction of Statistical Mechanics starts with Macrostate and Microstate followed by Concept of Ensemble, Three Statistical Distribution Laws namely Maxwell-Boltzmann Statistics, Bose-Einstein Statistics and Fermi-Dirac Statistics. Their applications are lucidly explained at the end of the book.

## Key Features

- This textbook comprehensively covers the subject Classical and Statistical Mechanics.
- Close to 200 figures and solved examples for easy understanding of concepts.
- Close to 250 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018281 | Price: ₹ 299 | Pages: 328 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**PART I: THEORY**

**Part A:** Introduction to Classical Mechanics

**Unit I**

1. Constrained Motion

**Unit II**

2. Lagrangian Formalism

**Unit III**

3. Hamiltonian Formalism

**Unit IV**

4. Motion under Central forces

**Part B:** Introduction to Statistical Mechanics

**Unit V**

5. Macrostate and Microstate

**Unit VI**

6. Concept of Ensemble

**Unit VII**

7. Distribution Laws

**Unit VIII**

8. Applications of Statistical Distribution Laws

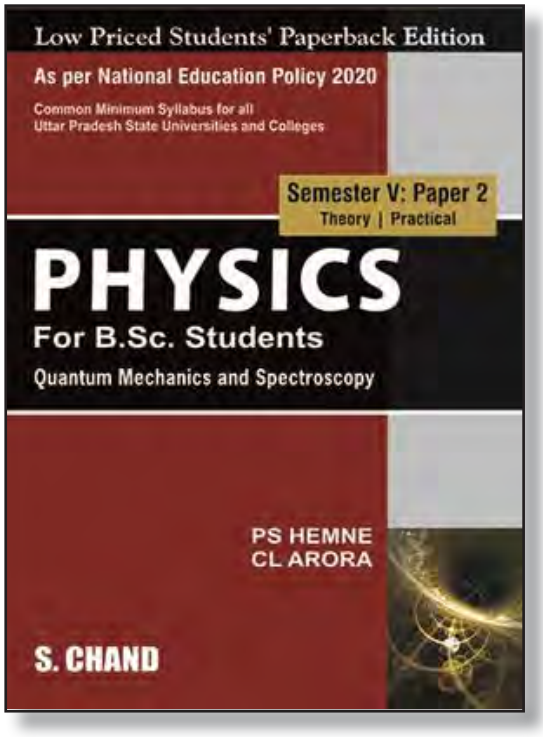
**PRACTICAL PART**

1. Fresnel's Biprism
2. Newton's Rings
3. Plane Transmission Grating

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.

(NEP 2020, CMS, Uttar Pradesh State Universities)




# Physics for B.Sc. Students Semester V : Paper 2 | Quantum Mechanics and Spectroscopy | NEP 2020 – For the University of Uttar Pradesh

P S Hemne & C L Arora

## About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Physics (Fifth Semester) for the Universities of Uttar Pradesh. This book comprises of two parts: Part A deals with Operator formalism, Eigen & Expectation values, Uncertainty principle, Schrödinger Equation, Applications of Schrödinger Equation and Part B deals with Vector Atomic Model, Spectra of Aalkali and Aalkaline Elements, X-rays and X-ray Spectra and Molecular Spectra. Maximum number of Laboratory experiments are incorporated in Practical paper. These experiments are mostly on Dispersive power of Prism, Specific rotation of sugar solution by Polarimeter and wavelength of Laser beam by diffraction due to single slit experiment. All topics are lucidly explained in this book.

## Key Features

- This textbook comprehensively covers the subject Quantum Mechanics and Spectroscopy.
- Close to 200 figures and solved examples for easy understanding of concepts.
- Close to 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018199 | Price: ₹ 349 | Pages: 360 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY PART**

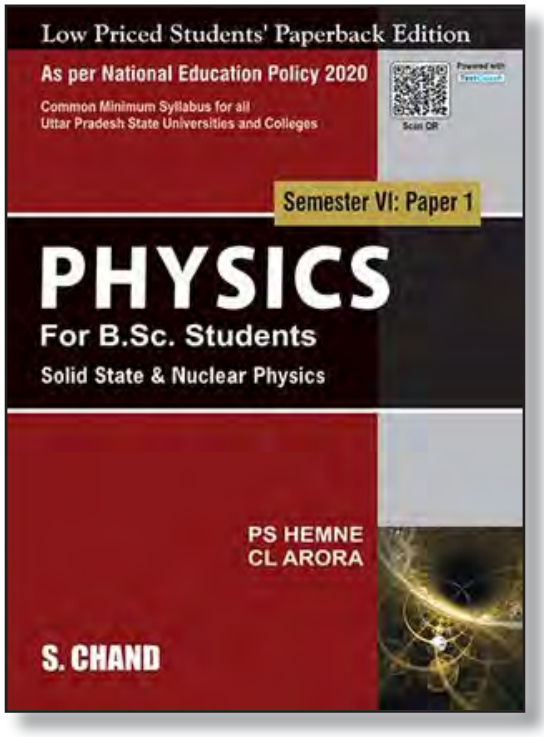
1. Operator Formalism
2. Eigen and Expectation Values
3. Uncertainty Principle and Schrödinger Equation
4. Applications of Schrödinger Equation
5. Vector Atomic Model
6. Spectra of Alkali and Alkaline Elements
7. X-Rays and X-Ray Spectra
8. Molecular Spectra

**PRACTICAL PART**

1. Spectrometer
2. Polarimeter
3. Laser Diffraction

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




# Physics For B.Sc. Students Semester VI: Paper 1 | Solid State & Nuclear Physics - NEP 2020 Uttar Pradesh

P S Hemne & C L Arora

## About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B.Sc. Physics (Sixth Semester) for the Universities of Uttar Pradesh. This book comprises of two parts: Part A deals with Introduction to Solid State Physics and it begins with Crystal Structure followed by Crystal Diffraction, Crystal Bindings and Lattice Vibrations. Part B on Introduction to Nuclear Physics starts with Nuclear Forces and Radioactive Decays followed by Nuclear Models and Nuclear Reactions, Accelerators & Detectors and Elementary Particles. All topics are lucidly explained in this book.

## Key Features

- This textbook comprehensively covers the subject Solid State and Nuclear Physics.
- More than 200 figures and solved examples for easy understanding of concepts.
- More than 400 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789358707526 | Price: ₹ 350 | Pages: 368 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**Part A: Introduction to Solid State Physics**

1. Crystal Structure
2. Crystal Diffraction
3. Crystal Bindings
4. Lattice Vibrations

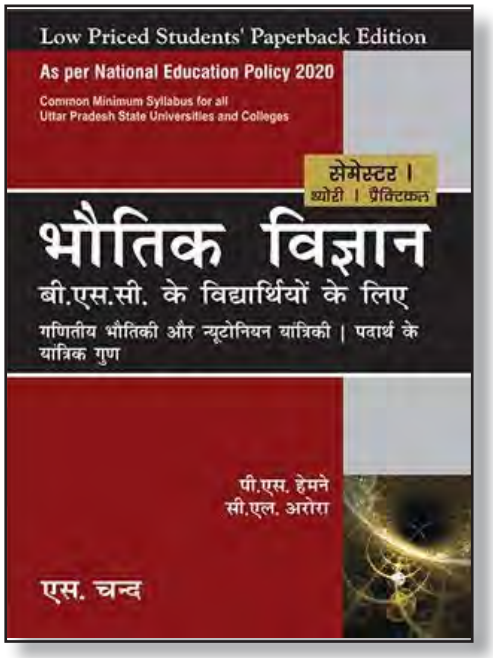
**Part B: Introduction to Nuclear Physics**

5. Nuclear Forces and Radioactive Decays
6. Nuclear Models and Nuclear Reactions
7. Accelerators and Detectors
8. Elementary Particles

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.

(NEP 2020, CMS, Uttar Pradesh State Universities)




## Bhautik Vigyan Semester I: B.Sc. ke Vidyarthiyon ke liye | NEP 2020 UP

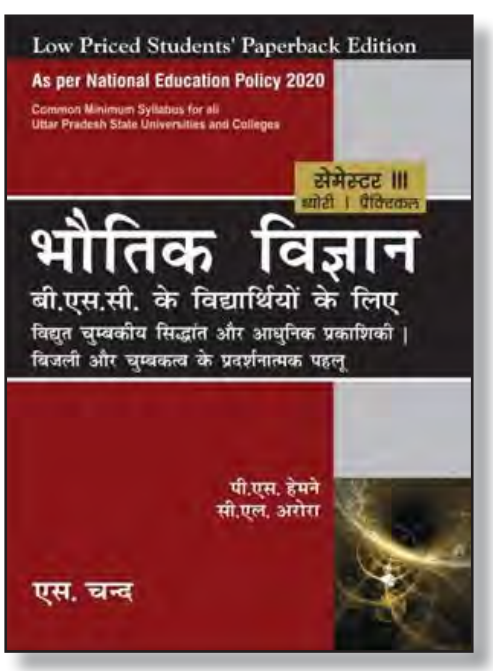
P S Hemne & C L Arora

### About the Book

BhautikmVigyan, B.Sc. ke Vidyarthiyon ke liye: Ganitiya Bhautiki aur Neutonian Yantriki | Padarth ke Yantrik

**ISBN: 9789355019059 | Price: ₹ 399 | Pages: 464 | Size: 6.5” X 9.25” (Paperback)**

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## Physics For B.Sc. Students Semester III: Vidut Chumbakiya Sidhant aur Adhunik Prakashiki | Bijali aur Chumbaktva ke Pradarshnatmak Pehlu - NEP 2020 UP

P S Hemne & C L Arora

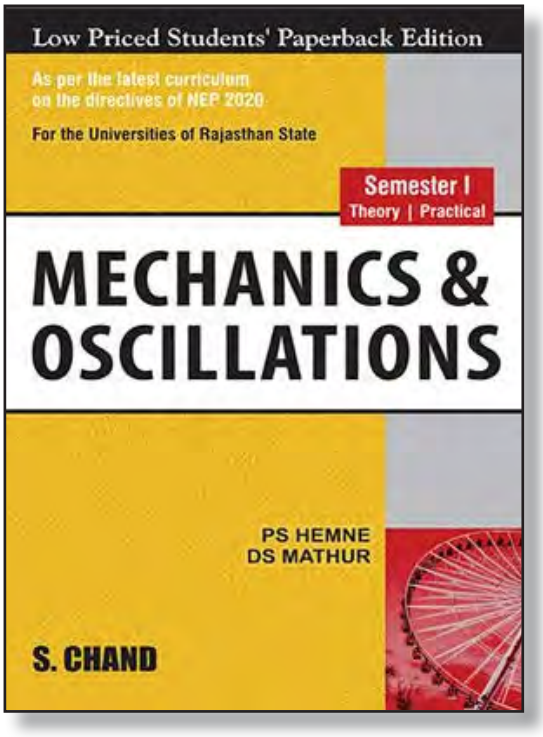
### About the Book

Physics For B.Sc. Students Semester III : Vidut Chumbakiya Sidhant aur Adhunik Prakashiki | Bijali aur Chumbaktva ke Pradarshnatmak Pehlu - NEP 2020 UP

**ISBN: 9789355019066 | Price: ₹ 399 | Pages: 488 | Size: 6.5” X 9.25” (Paperback)**



e-mail: info@schandpublishing.com




# Mechanics & Oscillations Semester I: For the Universities of Rajasthan State | LPSPE Edition

P S Hemne & D S Mathur

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Physics as per Common Minimum Syllabus prescribed under the recommended National Education Policy 2020 for Universities and Colleges in the state of Rajasthan. This textbook comprehensively covers the subject ';Mechanics & Oscillations'. The book covers the entire syllabus in Four Units. Unit I is devoted to Physical Laws and Frame of Reference, Unit II for Centre of Mass and Rigid Body Dynamics, Unit III for Motion under Central Forces, Damped Harmonic Oscillations and Unit IV for Driven Harmonic Oscillations and Coupled Oscillations. The textbook is further divided into 12 detailed laboratory experiments to help students to achieve strong conceptual understanding and learn experimental procedures.

## Key Features

- This textbook comprehensively covers the subject Mechanics & Oscillations.
- Close to 200 figures and solved examples for easy understanding of concepts
- Close to 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789358700220 | Price: ₹ 350 | Pages: 360 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY PART**

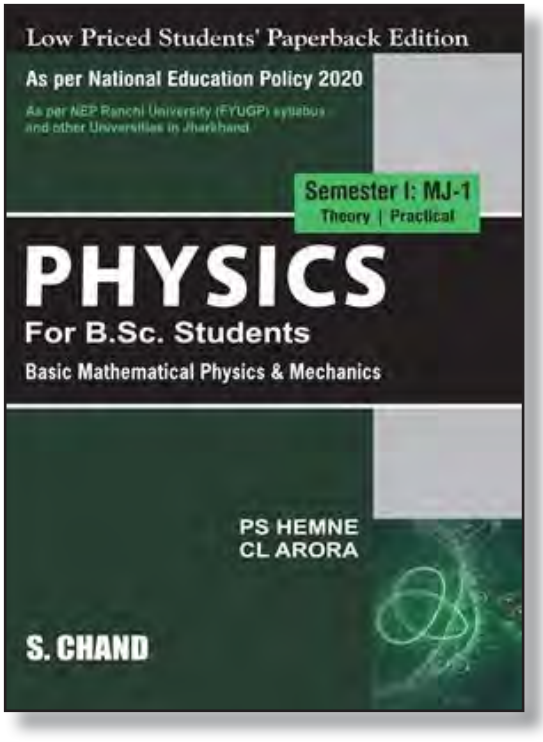
1. Newton's Laws of Motion and Reference Frames
2. Motion Under a Conservative Force
3. Mechanics of Centre of Mass and Collision of Particles
4. Dynamics of a Rigid Body
5. Motion Under Central Force
6. Damped Harmonic Oscillations
7. Forced (Driven) Harmonic Oscillator
8. Coupled Oscillations

**PRACTICAL PART**

1. First Step in Laboratory
2. Compound Pendulum
3. Coupled Oscillators
4. Moment of Inertia of a Flywheel
5. Motion of a Spring and its Elastic Constants

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




# Physics For B.Sc. Students Semester I: MJ-1 | Basic Mathematical Physics & Mechanics - NEP 2020 - For the University of Jharkhand

P S Hemne & C L Arora

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Physics as per Common Minimum Syllabus prescribed for Ranchi University and other Universities and Colleges under the recommended National Education Policy 2020 in Jharkhand. The theory starts with Differential Calculus, Vector Calculus, Orthogonal Curvilinear Coordinates, Elasticity, Flexure of Beam, Surface Tension, Fluid Motion, Central Force Motion, S.H.M. and Special Theory of Relativity. The practical part contains experiments such as Measurements & Random errors, Elastic constants, Acceleration due to Gravity and Viscosity. Oral questions are incorporated at the end of each experiment which are useful for Practical examination. These all are lucidly explained in this book.

## Key Features

- This textbook comprehensively covers the subject Basic Mathematical Physics & Mechanics.
- Close to 300 figures and solved examples for easy understanding of concepts.
- More than 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018427 | Price: ₹ 450 | Pages: 424 | Size: 6.5" X 9.25" (Paperback)**

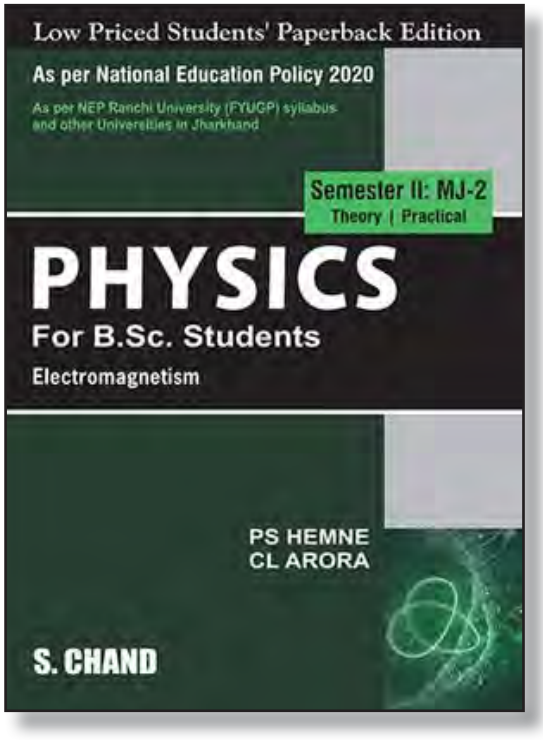
## Contents

**THEORY PART**
1. Differential Calculus
2. Vector Calculus
3. Elasticity
4. Surface Tension
5. Viscosity
6. Motion Under Central Force Field
7. Simple Harmonic, Damped and Forced Oscillations
8. Special Theory of Relativity
9. Thermal Physics

**PRACTICAL PART**
1. First Step in Laboratory
2. Elastic Constants
3. Acceleration Due to Gravity
4. Coefficient of Viscosity by Poiseuille's Flow Method
5. Height of a Building by Sextant

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

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# Physics for B.Sc. Students Semester II: MJ-2 | Electromagnetism - NEP 2020 Jharkhand Universities

P S Hemne & C L Arora

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Physics as per Common Minimum Syllabus prescribed for Ranchi University and other Universities and Colleges under the recommended National Education Policy 2020 in Jharkhand. The theory starts with Electric Field and Potential, Dielectric Properties of Matter, Magnetostatics, Electrical Circuits (A.C.), Ballistic Galvanometer, Maxwell's Equations, E.M. Wave Propagation in Unbounded Media, and Electro-Magnetic Wave (In Bounded Media). The practical part contains experiments such as Measurements and Random errors, Elastic constants, Acceleration due to Gravity, Coefficient of Viscosity by Poiseuille's Flow Method, Design and Use of a Multimeter, Low Resistance by Potentiometer, Comparison of Two Capacities by De' Sauty's Bridge, Study of Series LCR Circuits, Study of Parallel LCR Circuit. Oral questions are incorporated at the end of each experiment which are useful for Practical examination. These all are lucidly explained in this book.

## Key Features

- This textbook comprehensively covers the subject Electromagnetism.
- More than 250 figures and solved examples for easy understanding of concepts
- Close to 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018410 | Price: ₹ 325 | Pages: 368 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY PART**

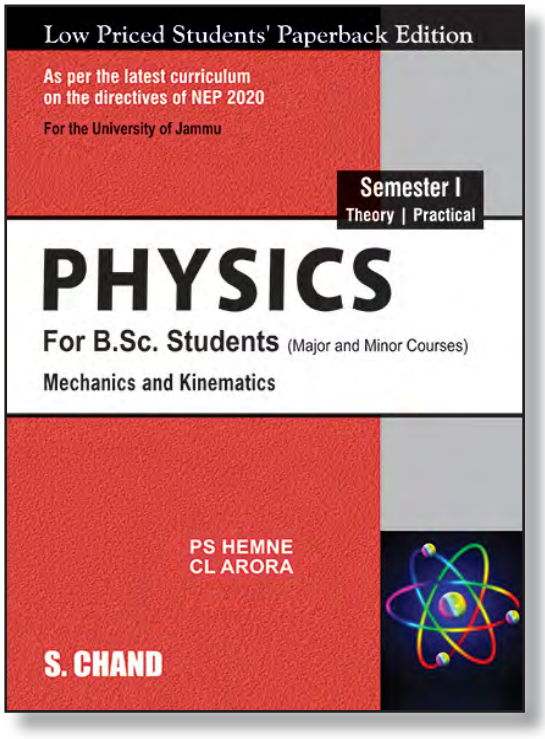
1. Electric Field and Potential
2. Dielectric Properties of Matter
3. Magnetostatics
4. Electrical Circuits (A.C.)
5. Ballistic Galvanometer
6. Maxwell's Equations
7. E.M. Wave Propagation in Unbounded Media
8. Electro-Magnetic Wave (In Bounded Media)
9. Thermal Physics

**PRACTICAL PART**

1. Measurement and Random Errors
2. Elastic Constants
3. Acceleration Due to Gravity
4. Coefficient of Viscosity by Poiseuille's Flow Method
5. Design and Use of a Multimeter
6. Low Resistance by Potentiometer
7. Comparison of Two Capacities By De' Sauty's Bridge
8. Study of Series LCR Circuits
9. Study of Parallel LCR Circuit

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# Physics for B.Sc. Students (Semester I) (NEP 2020 for the University of Jammu)

PS Hemne & CL Arora

## About the BooK

This book has been conceptualized as per the recommended National Education Policy (NEP) 2020 and as per syllabus prescribed by University of Jammu for B. Sc. Students of Physics for the First Semester. It covers important topics such as Coordinate Systems, Inertial and Non-Inertial Frames, Mechanics of Centre of Mass and Collision of Particles, Motion Under a Central Force, Simple Harmonic Motion, Damped and Forced Harmonic Oscillator and Elasticity. It also contains the "First Step in Laboratory".

## Key Features

- The textbook systematically covers 10 detailed laboratory experiments to help students to achieve strong conceptual understanding and learn experiment procedures
- More than 200 figures and solved examples for easy understanding of concepts
- Close to 200 questions (short- and long-answer) strengthen the well-explained theoretical concepts

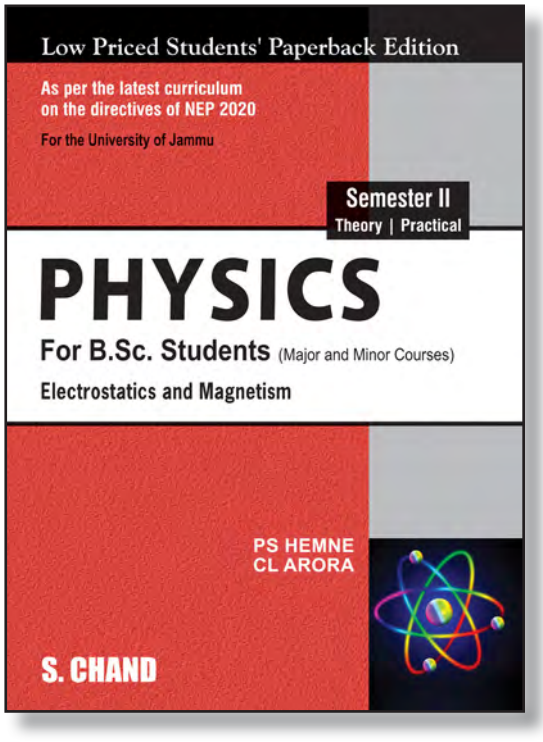
**ISBN: 9789355012074 | Price: ₹ 350 | Pages: 360 | Size: 6.5" X 9.25" (Paperback)**

## Contents

THEORY
Unit I
1. Coordinate Systems
2. Inertial and Non-Inertial Frames
Unit II
3. Mechanics of Centre of Mass and Collision of Particles
4. Motion Under a Central Force
Unit III
5. Simple Harmonic Motion
Unit IV
6. Damped Harmonic Oscillator
7. Forced Harmonic Oscillator
Unit III
8: Elasticity (Additional for Minor Course)
PRACTICAL
FIRST STEP IN LABORATORY WORK
1: Height of a Building by Sextant
2: Spring Elastic Constants
3: Moment of Inertia of a Flywheel
4: Freely Falling Body Due to Gravity
5: Modulus of Rigidity by Maxwell's Needle
6: Acceleration Due to Gravity by Bar Pendulum
7: Moment of Inertia of a Bar by Bifilar Suspension
8: Young's Modulus by Bending of Beam
9: Acceleration Due to Gravity by Kater's Pendulum
10: Frequency of AC Mains

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# Physics for B.Sc. Students (Semester II) NEP 2020 for the University of Jammu

PS Hemne & CL Arora

## About the BooK

This book has been conceptualized as per the recommended National Education Policy (NEP) 2020 and as per syllabus prescribed by University of Jammu for B. Sc. Students of Physics for the Second Semester. The textbook begins with coverage on Scalar and Vector Fields, Gauss's Divergence Theorem and Stokes Theorem. Starting from the Concept of Electric Field, Relation between Electric Intensity and Electric Potential, Electric Flux, Faraday and Lenz's Law, Electric Dipole and Gauss's Law of Electrostatics are discussed in detail. Electric and Magnetic Fields in Matter, Polarization Vector, Magnetostatics and Time Varying Electromagnetic Fields are incorporated in detail with suitable examples.

## Key Features

- Designed strictly as per B.Sc. Physics Second Semester syllabus for Theory (Major Course as well as Minor Course each of 3 Credits). This textbook comprehensively covers the subject Electrostatics and Magnetism.
- Close to 300 figures and solved examples for easy understanding of concepts.
- More than 200 questions (short- and long-answer) strengthen the well-explained theoretical concepts

**ISBN: 9789355016737 | Price: ₹ 325 | Pages: 328 | Size: 6.5" X 9.25" (Paperback)**

## Contents

THEORY PART

Unit I

1. Scalar and Vector Fields
2. Electric Field and Potential

Unit II

3. Electric and Magnetic Fields in Matter

Unit III

4. Magnetostatics

Unit IV

5. Time Varying Electromagnetic Fields

Unit IV (as per Minor Course Syllabus)

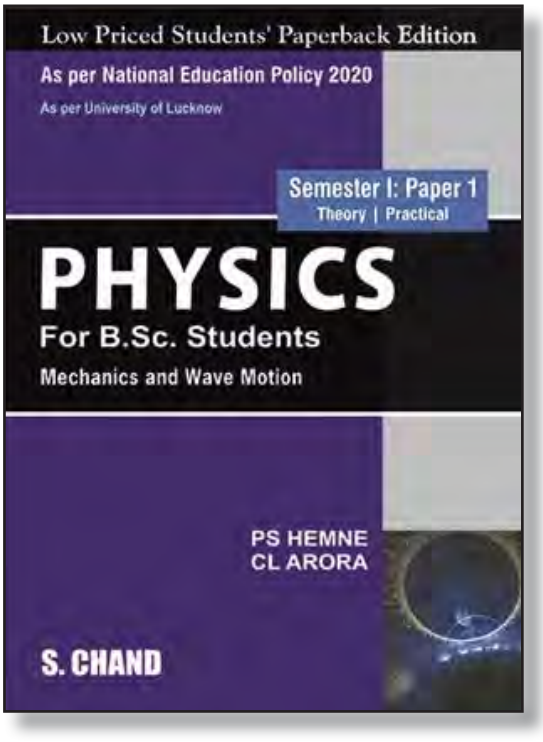
6. Electromagnetic Waves

PRACTICAL PART

1. Low Resistance by Carey-Foster Bridge
2. Ratio of Two Capacities by De Sauty's Bridge
3. Self-inductance by Anderson's Bridge using DC and AC
4. Self-inductance by Rayleigh's Method
5. Impedance of Series LCR Circuits
6. Frequency of A.C. Mains by Electrical Vibrator
7. Frequency of Tuning Fork using Sonometer
8. Capacitance Using Electrical Vibrator
9. Variation of Magnetic Field
10. Characteristics of a Series RC Circuit
11. Alternating Current (A.C) Circuits
12. Parallel Resonant LCR Circuit

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# Physics For B.Sc. Students Semester I: Paper 1 | Mechanics and Wave Motion | NEP 2020 For the University of Lucknow

Dr. P S Hemne & C L Arora

## About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Physics (First Semester) for the University of Lucknow. The book comprised of Four units. Unit I cover important topics such as Galilean Transformation of Space and Time, Newton's Laws of Motion, Michelson - Morley experiment, Postulates of Special Theory of Relativity, Concepts of Gradient, Divergence and Curl, Stoke's Curl Theorems and Pseudo Forces in Rotating Frame. Unit II highlights the Elastic and Inelastic Collisions in 1D and 2D, Concept of Centre of Mass Frame, Moment of Inertia Principles and their Applications to Different Shaped Bodies, Elasticity and Elastic Constants, Torsion Pendulum, Bending of Beam and Cantilever. Unit III includes Reduction of Two Body Central Force Problem to One Body Problem, Centre of Mass Motion, Motion of Planets and Satellites in Solar System, Kepler's Laws of planetary Motion, GPS and Motion Four Galaxy. Unit IV covers S.H.M., Damped and Forced Harmonic Oscillations, Sharpness of Resonance, Plane Progressive Waves, Standing Waves, Phase and Group Velocity.

## Key Features

- This textbook comprehensively covers the subject Mechanics and Wave Motion.
- Close to 300 figures and solved examples for easy understanding of concepts.
- Close to 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018373 | Price: ₹ 325 | Pages: 376 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY**

**Unit I:** 1. Theory of Relativity

2. Vector Calculus and Pseudo Forces in Rotating Frame

**Unit II:** 3. Dynamics of a Rigid Body

4. Elasticity

**Unit III:** 5. Motion of Planets and Satellites

**Unit IV:** 6. Simple, Damped and Forced Harmonic Motion

7. Wave Motion

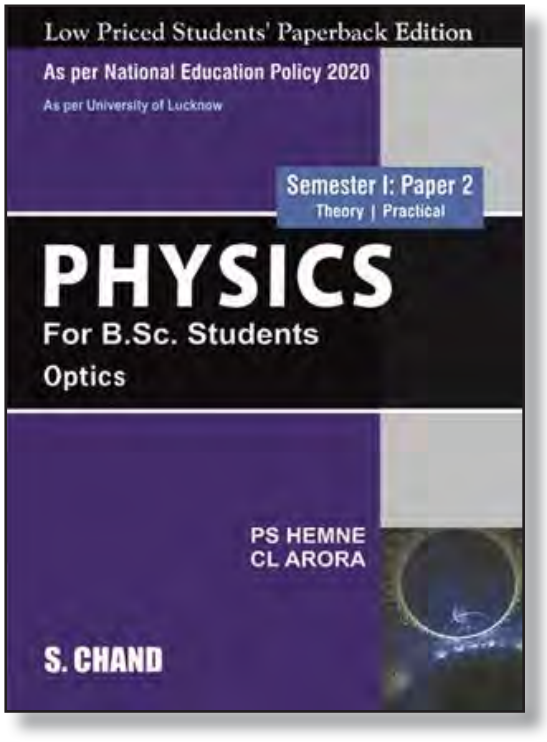
**PRACTICALS**

First Step in Laboratory

1. Young's Modulus of Beam by Flexure
2. Modulus of Rigidity by Statical Method (Barton's Apparatus)
3. Acceleration Due to Gravity
4. Surface Tension of Water by Capillary Rise Method
5. Coefficient of Viscosity of Water
6. Frequency of A.C. Mains

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




# Physics For B.Sc. Students Semester I: Paper 2 | Optics | NEP 2020 For the University of Lucknow

Dr. P S Hemne & C L Arora

## About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B.Sc. Physics (First Semester) for the University of Lucknow. The book comprised of Four units. Unit I cover Electromagnetic Nature of Light, Spacial and Temporal Coherence, Fresnel Biprism, Lloyd's Mirror, Thin Films, Michelson Interferometer, Febry Perot Interferometer and Etalon. Unit II includes Fresnel and Fraunhofer Diffractions, and Diffraction Grating, Principal Maxima and Missing Orders. Unit III highlights Rayleigh's criterion of resolution, Resolving power of grating and telescope. Unit IV describes the Optical Activity, Specific Rotation, Polarimeters, Jones Matrix, Metrics for polarizers and Retarding Plates are lucidly explained at the end of the book.

## Key Features

- This textbook comprehensively covers the subject Optics.
- Close to 300 figures and solved examples for easy understanding of concepts.
- Close to 250 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018434 | Price: ₹ 225 | Pages: 256 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY**

**Unit I**

1. Interference
2. Interferometers

**Unit II**

3. Diffraction

**Unit III**

4. Resolving Power of Optical Instruments
5. Polarisation-I

**Unit IV**

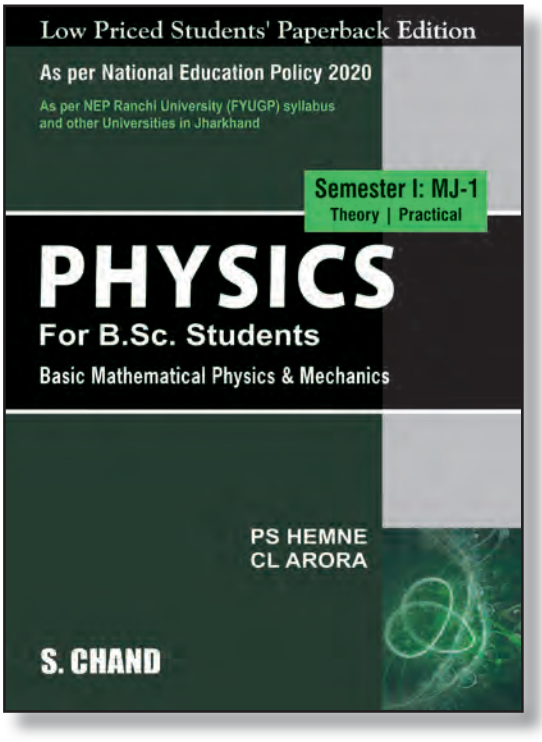
6. Polarisation II: Optical Activity

**PRACTICAL**

1. Dispersive Power of Prism
2. Wavelength by Newton's Ring
3. Height of a Building by Sextant
4. Verification of Brewster's Law
5. Optical Activity by Polarimeter
6. Diffraction at a Wire

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

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# Physics For B.Sc. Students Semester I: MJ-1 | Basic Mathematical Physics & Mechanics - NEP 2020 Patna University Syllabus and other Bihar Universities

P S Hemne & C L Arora

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Physics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar. The theory starts with Differential Calculus, Vector Calculus, Orthogonal Curvilinear Coordinates, Elasticity, Flexure of Beam, Surface Tension, Fluid Motion, Central Force Motion, S.H.M. and Special Theory of Relativity. The practical part contains experiments such as Measurements & Random errors, Elastic constants, Acceleration due to Gravity and Viscosity. Oral questions are incorporated at the end of each experiment which are useful for Practical examination. These all are lucidly explained in this book.

## Key Features

- This textbook comprehensively covers the subject Basic Mathematical Physics & Mechanics.
- Close to 300 figures and solved examples for easy understanding of concepts.
- More than 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355018427 | Price: ₹ 450 | Pages: 424 | Size: 6.5" X 9.25" (Paperback)**

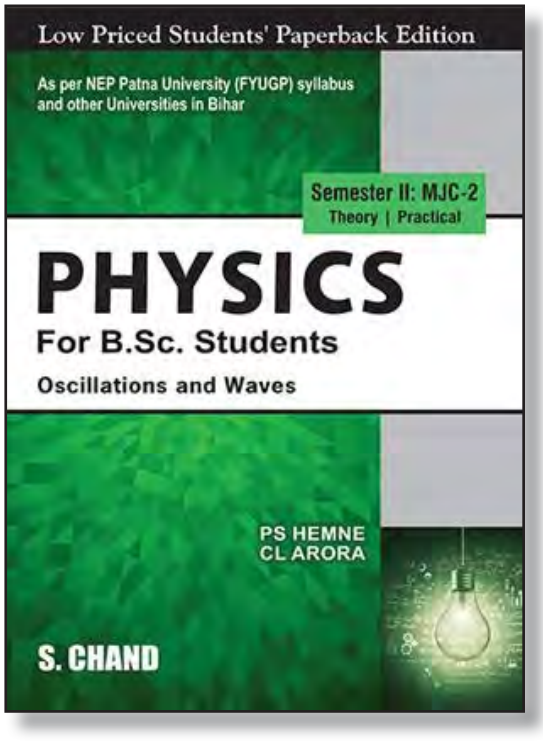
## Contents

**THEORY PART**
1. Differential Calculus
2. Vector Calculus
3. Elasticity
4. Surface Tension
5. Viscosity
6. Motion Under Central Force Field
7. Simple Harmonic, Damped and Forced Oscillations
8. Special Theory of Relativity
9. Thermal Physics

**PRACTICAL PART**
1. First Step in Laboratory
2. Elastic Constants
3. Acceleration Due to Gravity
4. Coefficient of Viscosity by Poiseuille's Flow Method
5. Height of a Building by Sextant

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

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# Physics For B.Sc. Students Semester II: MJC-2 | Oscillations and Waves - NEP 2020 Patna University Syllabus and other Bihar Universities

P S Hemne & C L Arora

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Physics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar. The theory paper is comprised of Four Units and starts with Free Forced and Damped Harmonic Oscillations, Lissajous Figures and Stationary Waves, Wave Front and Wave Motion, Sound Waves, Sharpness of Resonance, Sonometer, Beats, Musical Instruments, Newton's Formula for Velocity of Sound and Laplace's Correction, Musical Scale & Consonance etc. These all are lucidly explained in this book.

Experiments are incorporated mostly on frequency of a tuning fork, Melde's experiment, Sonometer, Kundt's tube, Ultrasonic Waves, Spring-Mass system, Characteristic of Microphone, Damping Constants using Bobs of Different Materials, Torsional Pendulum and Speed of Sound using Resonance Column Apparatus.

## Key Features

- This textbook comprehensively covers the subject Oscillations and Waves.
- More than 150 figures and solved examples for easy understanding of concepts
- Close to 150 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789358707755 | Price: ₹ 200 | Pages: 240 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY**

**UNIT I: BASICS OF OSCILLATIONS**

1. Free, Forced and Damped Harmonic Oscillations

**UNIT II: SUPERPOSITION OF OSCILLATIONS**

2. Lissajous Figures and Stationary Waves

**UNIT III: WAVE MOTION**

3. Wave Motion

**UNIT IV: SOUND WAVES**

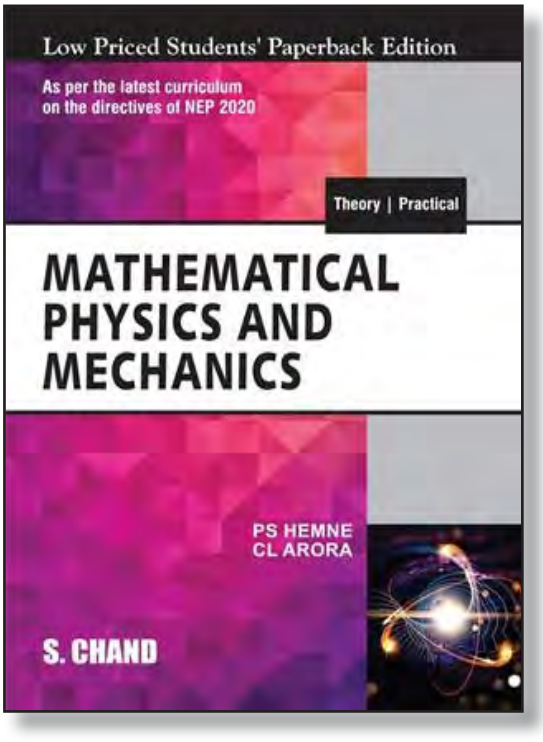
4. Sound Waves

**PRACTICALS**

1. Frequency and Laws of Stretched String by Sonometer
2. Frequency by Melde's Apparatus
3. Frequency of A.C. Mains
4. Speed of Sound in Materials
5. Ultrasonics
6. Motion of Spring-Mass System
7. Directional Characteristics of Microphone
8. Damped Mechanical Oscillator
9. Torsional Pendulum
10. Resonance of Air Column

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

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# Mathematical Physics And Mechanics: As per the latest curriculum on the directives of NEP 2020 Guwahati

P S Hemne & C L Arora

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Physics as per the Common Minimum Syllabus prescribed for Universities and Colleges under the recommended National Education Policy 2020. The book covers the entire syllabus in two parts, Part A: Mathematical Physics in 3 Units and Part B: Mechanics in 7 Units. In Part A, the first 3 chapters are on Vector Calculus, Curvilinear coordinates, and Dirac Delta Function. Part B is devoted to Mechanics consisting of 7 chapters on Reference frames, Gravitational and Central Force motion, Conservation laws, Dynamics of Rigid bodies, Work & Energy, Oscillations and Properties of matter. The textbook systematically covers 9 detailed laboratory experiments to help students to achieve strong conceptual understanding and learn experimental procedures. All topics are lucidly explained in this book.

## Key Features

- This textbook comprehensively covers the subject Mathematical Physics and Mechanics.
- More than 300 figures and solved examples for easy understanding of concepts.
- More than to 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

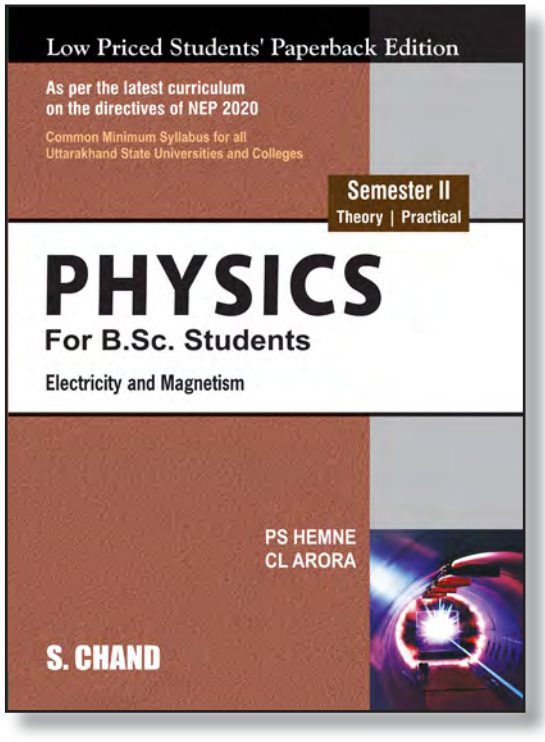
**ISBN: 9789358700701 | Price: ₹ 350 | Pages: 416 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**THEORY**
**Part A: Mathematical Physics**
UNIT I: Vector Calculus, 1. Scalar And Vector Fields
UNIT II: Curvilinear Coordinates,
2. Curvilinear Coordinate System
UNIT III: Dirac Delta Function, 3. Dirac Delta Function Electromagnetic Waves
**Part B: Mechanics**
UNIT I: Reference Frames
4. Inertial and Non-Inertial Reference Frames
UNIT II: Gravitation and Central Force Motion,
5. Motion Under Central Force
UNIT III: Conservation Laws, 6. Dynamics of a System of Particles Lasers
UNIT IV: Dynamics of Rigid Bodies
7. Rigid Body Motion
UNIT V: Work and Energy
8. Work and Energy
UNIT VI: Oscillations
9. Simple Harmonic Motion
UNIT VII: Properties of Matter
10. Elasticity and Viscosity
**FIRST STEP IN LABORATORY**
1. Elastic Constants
2. Moment of Inertia by Torsional Oscillations
3. Acceleration Due to Gravity
4. Coefficient of Viscosity by Poiseuille's Method
5. Height of a Building by Sextant

**Dr. P. S. Hemne,** Ph.D., was formerly Principal and Head of Postgraduate Department of Physics at Nevjabai Hitkarini College (RTM Nagpur University, Nagpur). He has 40 years of teaching experience and has served as Chairman of Physics, Board of Studies (BOS), Gondwana University, Gadchiroli.

**C.L. Arora** was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




# Physics for B.Sc. Students Semester II: (NEP 2020 – For the University of Uttarakhand)

PS Hemne & CL Arora

## About the Book

This book has been conceptualized as per the recommended National Education Policy (NEP) 2020 and as per syllabus prescribed by Universities of Uttarakhand for B. Sc. Students of Physics for the Second Semester. The textbook begins with coverage on Coulomb's law of electrostatic force and Gauss's theory. Also, concept of Electric Field, relation between Electric Intensity and Potential, Electric Flux, Faraday and Lenz's Law, Electric Dipole and Gauss's Law of Electrostatics are discussed in detail. Electric and Magnetic Fields in Matter, Polarization Vector, Clausius-Mossotti Relation, Steady and Varying Electric Currents, Growth and Decay in LCR Combination Circuits, a Magnetostatics and Time Varying Electromagnetic Fields, Maxwell's Equations are well described with suitable examples.

## Key Features

- The textbook systematically covers 23 detailed laboratory experiments to help students to achieve strong conceptual understanding and learn experimental procedures.
- Close to 400 figures and solved examples for easy understanding of concepts
- Close to 300 questions (short- and long-answer) strengthen the well-explained theoretical concepts

**ISBN: 9789355016720 | Price: ₹ 375 | Pages: 432 | Size: 6.5" X 9.25" (Paperback)**

## Contents

UNIT I
1. Coulomb's Law and Electric Field
2. Gauss's Law
3. Electrostatic Potential

UNIT II
4. Electric and Magnetic Fields in Matter

UNIT III
5. Electric Currents (Steady and Varying)

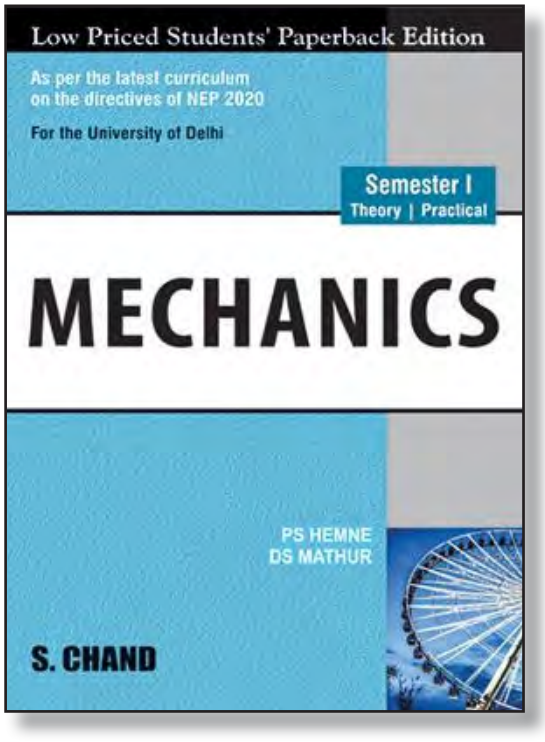
UNIT IV
6. Magnetostatics

UNIT V
7. Electromagnetic Induction
8. A.C. Circuits
9. Electromagnetic Waves

LABORATORY WORK
1. Frequency of A.C. Mains
2. Melde's Experiment
3. Calibration of an ammeter by Potentiometer
4. Calibration of Voltmeter by Potentiometer
5. Specific Resistance by Carey-Foster's Bridge
6. Conversion of Galvanometer into an Ammeter
7. Conversion of Galvanometer into a Voltmeter
8. Variation of Magnetic Field
9. Electrochemical Equivalent
10. Comparison of Two Capacities by De-Sauty's Bridge
11. Ratio of Two Resistances by Potentiometer
12. Study of R-C and L-C-R Circuits
13. Self-inductance and Mutual Inductance
14. Magnetic Field by Search Coil and B.G.
15. Sonometers

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# Mechanics (Semester I)

## NEP 2020 for the University of Delhi

PS Hemne and DS Mathur

### About the BooK

This book has been conceptualized as per the recommended National Education Policy (NEP) 2020 and as per the syllabus prescribed by the University of Delhi for B. Sc. Students of Physics for the First Semester. It covers important topics such as Reference Frames and Mechanics of Centre of Mass, Work and Energy, Collisions, Dynamics of a Rigid Body, Newton's Law of Gravitation, Motion Under Central Force Field, Simple Harmonic, Damped and Forced Oscillations and Non-Inertial Frame: Fictitious Forces for strong conceptual understanding. It also contains "First Step in Laboratory" which engages the learner to understand laboratory experiments in a clearer fashion.

### Key Features

- The textbook systematically covers 12 detailed laboratory experiments to help students to achieve strong conceptual understanding and learn experiment procedures.
- More than 200 figures and solved examples for easy understanding and concepts.
- More than 250 questions (short- and long-answer) strengthen the well-explained theoretical concepts.

**ISBN: 9789355015419 | Price: ₹ 350 | Pages: 392 | Size: 6.5" X 9.25" (Paperback)**

### Contents

THEORY PART

UNIT – I Fundamentals of Dynamics

1. Reference Frames and Mechanics of Centre of Mass

UNIT - II Work, Energy and Collisions

2. Work and Energy
3. Collisions

UNIT - III Rotational Dynamics

4. Dynamics of a Rigid Body

UNIT – IV Gravitation and Motion Under Central Force Field

5. Newton's Law of Gravitation
6. Motion Under Central Force Field

UNIT - V Oscillations and Non-Inertial System

7. Simple Harmonic, Damped and Forced Oscillations

UNIT - VI Special Theory of Relativity

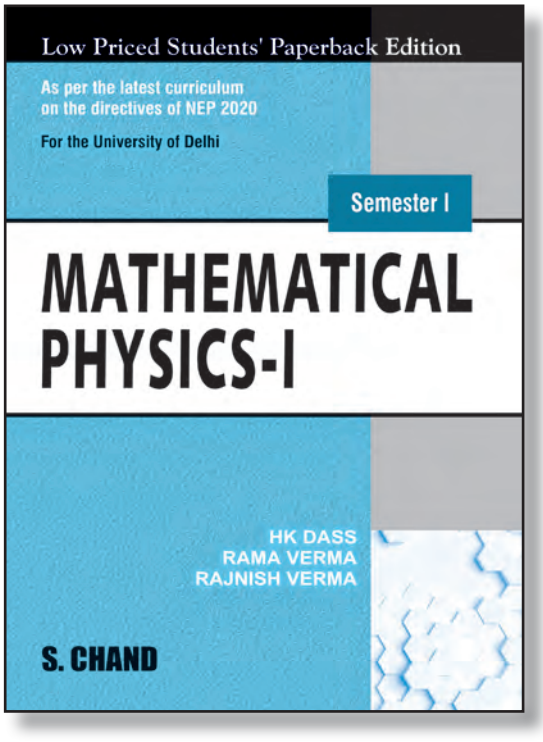
8. Special Theory of Relativity

PRACTICAL PART

1. First Step in Laboratory Relativity
2. Acceleration Due to Gravity
3. Moment of Inertia of a Flywheel
4. Elastic Constants
5. Coefficient of Viscosity by Poiseuille's Flow Method
6. Height of a Building by Sextant

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D. S Mathur: M.Sc. (Physics), Ph.D., Principal and Head of Post Graduate Department of Physics, Nevjabai Hitkarini College, Bramhapuri, (RTM Nagpur University)




# Mathematical Physics-I for B.Sc. Students: Semester I (NEP 2020 for the University of Delhi)

HK Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

Conceptualized specifically for the University of Delhi as per the recommendations of National Education Policy 2020 (NEP 2020), Mathematical Physics - I covers important topics such as "Concept of Functions", "Graphs of Functions Using Calculus Concepts", "Homogeneous Equations with Constant Coefficients", "Applications Physics Problems Second Order Differential Equations", "Vector Algebra, Differentiation, and Integration", "Binomial, Poisson, and Normal Distribution" for sound conceptual understanding for students.

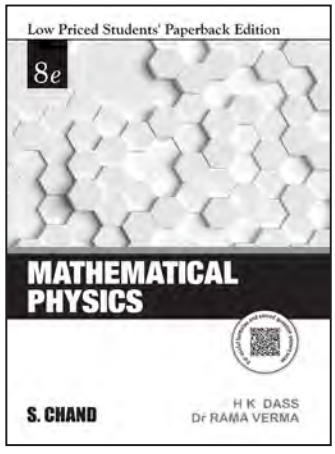
## Key Features

- Divided in Three Units which are sub-divided in 24 chapters for a 100% coverage of the recommended syllabus.
- Close to 400 examples in the text illustrate all major topics thereby providing ample support to the theory explained.
- More than 100 practice sets which carry close to 1500 questions provide rich practice
- Special Appendix on Double and Triple Integral

**ISBN: 9789355015181 | Price: ₹ 525 | Pages: 504 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit I Calculus
1. Concept of Functions
2. Graphs of Functions Using Calculus Concepts
3. First Order Differential Equations
4. Variable Separable
5. Homogeneous Non-Homogeneous
6. Exact-Inexact and Integrating Factors
7. Applications-Physics Problems
8. Homogeneous Equations with Constant Coefficients
9. Method of Undetermined Coefficients
10. Cauchy-Euler Equations
11. Variation of Parameters
12. Simultaneous Differential Equations
13. Applications Physics Problems Second Order D.E.
Unit II Vector Analysis
14. Vector Algebra
15. Vectors Differentiation
16. Vector Integration
17. Orthogonal Curvilinear Coordinates
Unit III Probability and Statistics
18. Independent and Dependent Events
19. Conditional Probability
20. Bayes' Theorem
21. Probability Distribution Functions
22. Binomial Distribution
23. Poisson Distribution
24. Normal Distribution
Appendix: Double and Triple Integrals




## Mathematical Physics, 8e (LPSPE)

H K Dass & Rama Verma

### About the Book

*"Mathematical Physics"* has been written to provide the readers a clear understanding of the mathematical concepts which are an important part of modern physics. The textbook contains 49 chapters on all major topics in an exhaustive endeavour to cover syllabuses of all major universities. Some of the important topics covered in these chapters are Vectors, Integration, Beta and Gamma functions, Differential Equations, Complex Numbers, Matrix and Determinants, and the Laplace transforms.

### Key Features

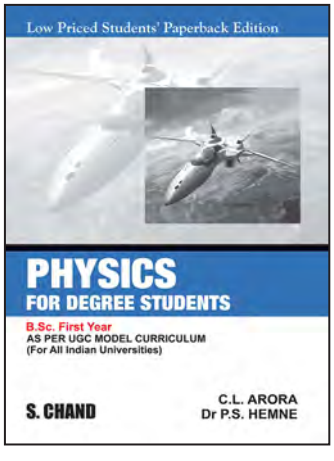
- Comprehensive: Coverage to cater to syllabuses of major universities.
- On the Website: One will find solved question papers of 2016 and 2017 along with useful formulae for easy download.
- Student friendly: In the way that the text goes in depth of the subject with as many as 49 chapters which contain over 1600 examples and over 225 exercise sets.

**ISBN: 9789352837229 | Price: ₹ 850 | Pages: 1,440 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Unit-I 1. Review of Vector Algebra, 2. Differentiation of Vectors, 3. Integration of Vectors, 4. Orthogonal Curvilinear Coordinates, 5. Double Integrals, 6. Application of the Double Integrals, 7. Triple Integration, 8. Application of Triple Integration, 9. Gamma, Beta Function, 10. Theory of Errors, 11. Fourier Series, Unit-II 12. Differential Equations of First Order, 13. Linear Differential Equations of Second Order, 14. Cauchy–Euler Equations, Method of Variation of Parameters, 15. Differential Equation of other Types, 16. Coupled Differential Equations, 17. Applications to Differential Equations, 18. Calculus of Variation, 19. Maxima and Minima of Functions (two variables), Unit-III, 20. Complex Numbers, 21. Expansion of Trigonometric Functions, 22. Functions of Complex Variable, Analytic Function, 23. Conformal Transformation, 24. Complex Integration, 25. Taylor's and Laurent's Series, 26. The Calculus of Residues (Integration), 27. Series Solutions of Second Order Differential Equations, 28. Legendre's Functions, 29. Bessel's Functions, 30. Hermite Function, 31. Laguerres Functions, Unit-IV 32. Abstract Vector Spaces, 33. Vectors in $R^n$, 34. Linear Transformations, 35. Basis of Null Space, Row Space and Column Space, 36. Real Inner Product Spaces, 37. Determinants, 38. Algebra of Matrices, 39. Rank of Matrix, 40. Consistency of Linear System of Equations and their Solution (Linear Dependence), 41. Eigen Values, Eigen Vector, Cayley Hamilton Theorem, Diagonalisation (Complex and Unitary Matrices), 42. First Order Lagrange's Linear and Non-Linear Partial Differential Equations, 43. Linear and Non-linear Partial Differential Equations with Constant Coefficients of 2nd Order, 44. Applications of Partial Differential Equations, 45. Integral Transforms, 46. Laplace Transform, 47. Inverse Laplace Transforms (Solution of differential equations), 48. Dirac-Delta Function 49. Tensor Analysis,• *Useful Formulae and Solved Question Papers provided on the S Chand website*

**H K Dass,** MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England). He is also the winner of Secular India Award – 1998.
**Rama Verma,** Head of Department - Mathematics, Mata Sundri College, University of Delhi




## Physics for Degree Students (For B.Sc. First Year) (LPSPE)

C L Arora & P S Hemne

### About the Book

"Physics for Degree Students" is written exclusively for B.Sc. first year students. For close to 10 years, the text provides close to 1500 pedagogical elements spread across 24 chapters to the students while covering the entire syllabus.

### Key Features

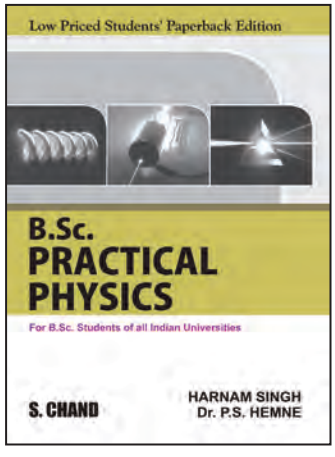
- Divided in two sections – "Mechanics, Oscillations and Properties of Matter" and "Electricity, Magnetism and Electromagnetic Theory" for delineated understanding of concepts.
- Enriched with more than 450 figures for better understanding of the concepts
- 1000+ engaging chapter-end theoretical and numerical questions to test student's understating of the concepts

**ISBN: 9789352837281 | Price: ₹ 599 | Pages: 904 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Section-I: Mechanics, Oscillations and Properties of Matter: 1. Mechanics: Laws of Motion, 2. Motion Under a Central Force, 3. Conservation of Momenta and Mechanics of Centre of Mass, 4. Dynamics of Rigid Body, 5. Oscillations: Simple Harmonic Motion, 6. Lissajous' Figures, 7. Damped, Forced Harmonic Oscillator, 8. Coupled Oscillators, 9. Motion of Charged Particles in Electric and Magnetic Fields, 10. Properties of Matter: Elasticity, 11. Fluid Mechanics: Viscosity, 12. Surface Tension, Section-II: Electricity, Magnetism and Electromagnetic Theory: 13. Mathematical Background-I: Vector Analysis, 14. Mathematical Background-II: Partial Derivatives, 15. Repeated Integrals, 16. Electrostatics: Electric Field, 17. Electric Potential, 18. Electric Fields in Dilectrics, 19. Electric Currents: Steady Current, 20. Alternating Current (A.C.), 21. Magnetostatics-I: Force on a Moving Charge, 22. Magnetostatics-II: Magnetic Field due to Steady Currents, 23. Time Varying Fields: Electromagnetic Induction, 24. Electromagnetic Waves • *Index*

**C L Arora,** M.Sc., Formerly Principal, DAV College, Jalandhar, and Dean of College & Guru Nanak Dev University, Amritsar.
**P S Hemne,** M.Sc., Ph.D. Principal and Head of Post Graduate Department of Physics, Nevjabai Hitkarini College, Bramhapuri.




# B.Sc. Practical Physics (LPSPE)

Harnam Singh & P S Hemne

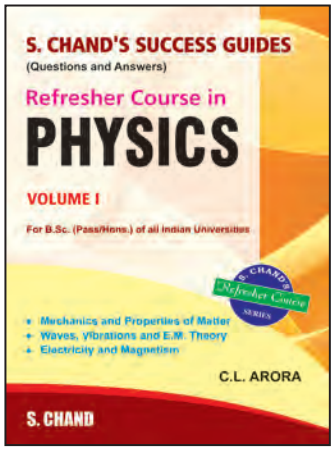
**ISBN: 9789355010940**
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## Contents

• Introduction: 1. First Step in Physics Laboratory, 2. Errors Analysis and Graph Drawing, Section-I: Properties of Matter: 3. Mechanics and Oscillations, 4. Moment of Inertia, 5. Elastic Constants, 6. Surface Tension and Viscosity, Section-II: Heat, Thermodynamics and Statistical Physics: 7. Kinetic Theory, 8. Thermal Conductivity, 9. Specific Heat Capacities of Solids, Liquid and Gases, 10. Statistical Physics, Section-III: Waves and Acoustics: 11. Vibrations of Stretched Strings, 12. Acoustics, 13. Ultrasonics, Section-IV: Geometric Optics (Ray Optics): 14. Mirror and Lenses, 15. Refraction, 16. Telescopes and Microscope, Section-V: Physical Optics (Wave Optics): 17. Interference, 18. Diffraction 19. Polarization, 20. Photometry and Some Miscellaneous Experiments, Section-VI: Electricity: 21. Accumulators and Resistance Thermometry, 22. Direct Current (DC) Instruments, 23. Chemical Effects of a Current, 24. Ballistic Galvanometer and Potentiometer, 25. Transient Currents, 26. Network Theorems, 27. Thermo-EMF Thermometry, 28. Alternating Currents (A.C.) Measurements, 29. A.C. Bridges, 30. CRO and its Use, Section-VII: Magnetism: 31. Measurement of Magnetic Properties, Section-VIII: Modern Physics: 32. Solid-State Physics, 33. Atomic Physics, 34. Quantum Mechanics, 35. Laser, Section-IX: Linear Electronics: 36. Thermionic Emission, 37. Semiconductor Diodes and Power Supply, 38. Transistors, 39. FET and SCR, 40. Oscillators, 41. Operational and Amplifiers and Analog Techniques, Section-X: Digital Electronics: 42. Logic States, 43. Flip-Flops and Registers, 44. Experiments in 'C' Language (As per UGC Curriculum) Computer Programming • *Appendices: A. From Viva-Voca Point of View, B. Nuclear Power Plant, C. Vacuum Technique, D. Production of Low Temperatures, E. Low Temperature Work, F. Technique of Dating* • *Physical Constants* • *Mathematical Tables*

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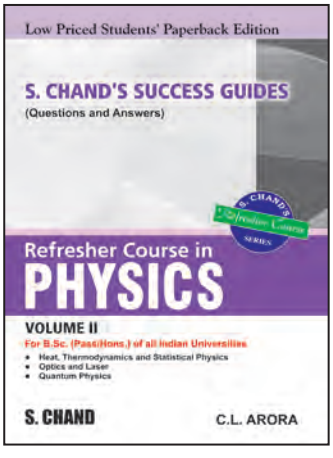

## Refresher Course in Physics - Volume I (LPSPE)

C L Arora

**ISBN: 9788121904650**
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### Contents

Section-I: Mechanics and Properties of Matter: 1. Vectors, 2. Co-ordinate System, 3. Conservation of Momentum and Energy, 4. Moment of Inertia and Rigid Body Dynamics, 5. Frames of Reference, 6. Gravitation, 7. Motion under a Central Force, 8. Rockets and Satellites, 9. Elastic and Inelastic Collisions, 10. Relativity, 11. Elasticity, 12. Surface Tension, 13. Viscosity, 14. Classical Mechanics (Lagrangian and Hamiltonian Formulation), Section-II: Waves, Vibrations and E.M. Theory: 1. Simple Harmonic Motion, 2. Damped Simple Harmonic Motion, 3. Forced Oscillator and Resonance, 4. Coupled Oscillators, 5. Transverse Waves, 6. Longitudinal Waves, 7. Interference, Beats, Stationary Waves, Doppler Effect and Ultrasonics, 8. Electromagnetic Waves, 9. Fourier Analysis, Section-III: Electricity and Magnetism: 1. Vector Calculus, 2. Coulomb's Law and Electric Field, 3. Gauss's Theorem and Its Applications, 4. Electric Potential, 5. Electric Fields in Dielectrics, 6. Electric Current 7. Fields of Charges in Motion, 8. The Magnetic Field, 9. Magnetism in Matter, 10. Electromagnetic Induction, 11. Alternating Currents




## Refresher Course in Physics - Volume II (LPSPE)

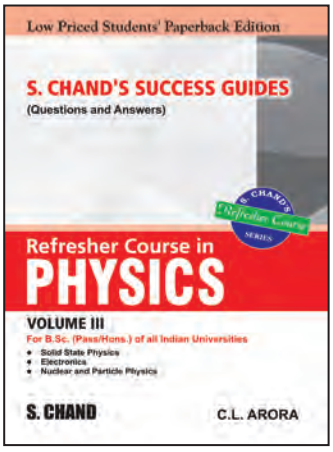
C L Arora

**ISBN: 9789355010858**
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C.L. Arora was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar.




## Refresher Course in Physics - Volume III (LPSPE)

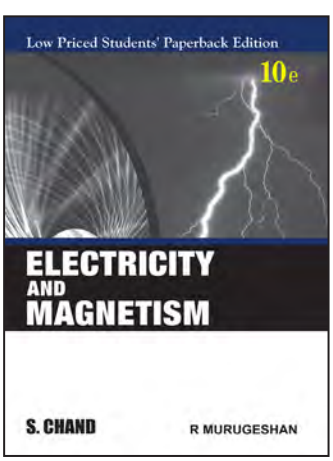
C L Arora

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### Contents

Section-I: Solid State Physics: 1. Crystal Structure, 2. Crystal Diffraction and Reciprocal Lattice, 3. Crystal Bonding, 4. Lattice Vibrations, 5. Free Electron Theory of Metals, 6. Band Theory of Solids, 7. Semiconductors, 8. Super Conductivity, 9. Magnetic and Dielectric Properties, Section-II: Electronics: 1. Semi-Conductor Diodes, 2. Rectifiers and Filters, 3. Bipolar Junction Transistors, 4. Field Effect Transistor, 5. Transistor Biasing, 6. Feedback Amplifiers, 7. Oscillators, 8. Modulation and Detection, 9. Radio Communication, 10. Cathode Ray Oscillograph and Television, 11. Valve Electronics, 12. Network Theorems, Section-III: Nuclear And Particle Physics: 1. Atomic Nucleus, Nuclear Models, 3. Radioactivity, 4. Nuclear Reactions and Fissions, 5. Interaction of Nuclear Radiation with Matter, 6. Particle Accelerators, 7. Radiation Detectors, 8. Cosmic Rays and Elementary Particles

C.L. Arora was formerly Principal at D.A.V. Post Graduate College, Jalandhar. Prior to this, he was Principal at D.A.V. College, Amritsar as well as D.A.V. College, Sholapur (Maharashtra). He was selected as Dean of College Development Council in Guru Nanak Dev University, Amritsar




## Electricity and Magnetism, 10e (LPSPE)

R Murugeshan

### About the Book

This tenth, extensively revised edition of *Electricity and Magnetism* continues to provide students a detailed presentation of the fundamental principles, synthesis and physical interpretation of electric & magnetic fields. It follows full vector treatment in discussing topics such as electrostatics, magnetostatics, DC circuits, AC circuits, electrodynamics and electromagnetic waves. While retaining its modern outlook to the subject, this new edition has been revised as per the latest syllabi of various universities. Students pursuing B.Sc. Physics course would find this textbook extremely useful.

### Key Features

- Increased coverage on Magnetism discussing topics such as Diamagnetism, Paramagnetism, Ferromagnetism, Weiss Modification and Domain theory of Ferromagnetism
- Significant revision of the chapter on Dielectrics, expanding coverage on topics such as Polarization and derivation of Clausius-Mossotti equation
- More than 500 figures to help students visualize and understand the different electromagnetic phenomena
- Close to 300 chapter-end questions to help students comprehend and assess their understanding of the concepts

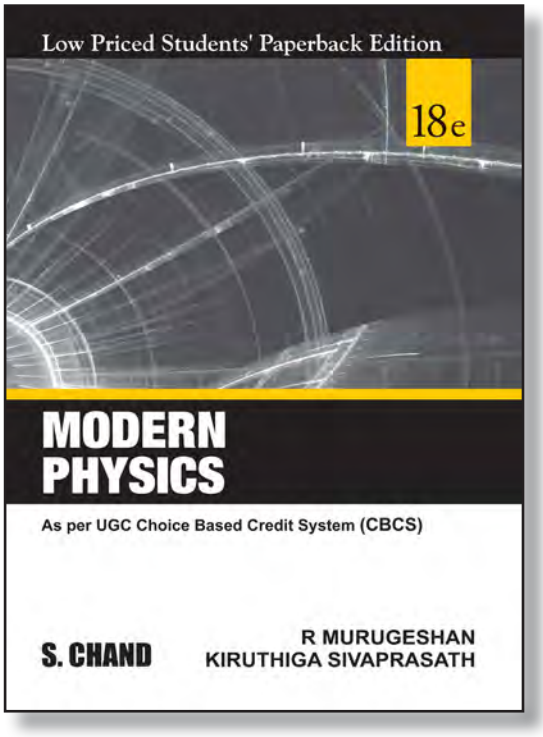
**ISBN: 9789352837342 | Price: ₹ 425 | Pages: 488 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Electric Charges and Fields, 2. Gauss's Law and its Applications, 3. Electric Potential, 4. Capacitors and Electrometers, 5. Dielectrics, 6. Steady Currents, 7. Motion of Charged Particles in Electric and Magnetic Fields, 8. Thermo-electricity, 9. Chemical Effect of Electric Current, 10. Magneto statics (Magnetic Effect of Electric Current), 11. Electromagnetic Induction, 12. Transient Currents (Varying Currents), 13. Alternating Current, 14. Magnetic Properties of Materials, 15. Maxwell's Equations and Electromagnetic Waves • *Index*

**R Murugeshan,** Formerly, Head of Department of Physics, Vivekananda College, Madurai.

LOW PRICED STUDENTS' PAPERBACK EDITION




# Modern Physics, 18e (LPSPE)

## R Murugeshan & Kiruthiga Sivaprasath

### About the Book

The eighteenth edition of this well-known textbook continues to provide a thorough understanding of the principles of modern physics. It offers a detailed presentation of important topics such as atomic physics, quantum mechanics, nuclear physics, solid state physics and electronics. The concepts are exhaustively presented with numerous examples and diagrams which would help the students in analysing and retaining the concepts in an effective manner. This textbook is a useful resource for undergraduate students and will also serve as a reference text for PG students.

### Key Features

- Comprehensive and focused coverage on Quantum Mechanics with an enhanced discussion on Dirac Notation under the chapter on Operator Formalism
- Extensively revised, Semiconductor Devices comprehensively discusses topics such as Frequency Modulation and Operational Amplifiers as well as covers new topics such as FM Transmitter and FM Receiver
- Discussion on relevant topics such as Classical Mechanics and Mathematical Physics under Theoretical Physics
- Over 700 questions provided to test and strengthen students' understanding of the concepts

**ISBN: 9789352837236 | Price: ₹ 625 | Pages: 1,088 | Size: 6.5" X 9.25" (Paperback)**

### Contents

Part-I: Relativity
1. Theory of Relativity

Part-II: Atomic Physics
2. The Electron
3. Positive Rays
4. Structure of the Atom
5. X-Rays
6. Photoelectric Effect and Planck's Quantum Theory

Part-III: Quantum Mechanics
7. Wave Properties of Particles
8. Schrodinger Equation and its Applications
9. Quantum Theory of the Hydrogen Atom
10. Operator Formalism of Quantum Mechanics
11. Identical Particles and Spin
12. Scattering Theory
13. Perturbaton Theory

Part-IV: Molecular Physics
14. Molecular Spectra
15. Spectra of Alkali and Alkaline Earth Elements
16. X-Ray Spectra

Part-V: Nuclear Physics
17. Introduction to the Nucleus
18. Detectors of Nuclear Radiations
19. Particle Accelerators
20. Radioactivity
21. Artificial Transmutation of Elements
22. Nuclear Fission and Fusion
23. Cosmic Rays
24. Elementary Particles

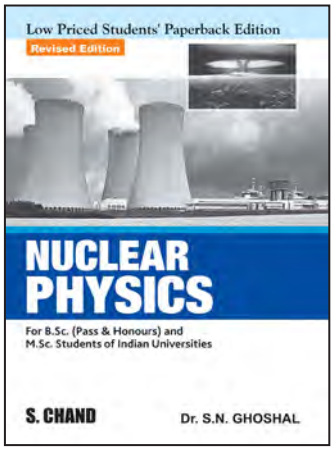
Part-VI: Solid State Physics
25. Crystallography
26. Lattice Vibrations and Phonons
27. Free Electron Theory and Band Theory
28. Superconductivity
29. Dielectrics and Ferroelectrics
30. Magnetism

Part-VII: Frontiers of Physics
31. Astrophysics
32. Nanotechnology

Part-VIII: Electronics and Solid State Devices
33. Semiconductor Diode and Diode Applications
34. Special-Purpose Diodes
35. Bipolar Junction Transistor (BJT)
36. BJT Amplifiers
37. Oscillators
38. JFET, MOSFET, SCR and UJT
39. Operational Amplifiers
40. Communications Electronics
41. Number Systems and Logic Circuits

Part-IX: Theoretical Physics
42. Classical Mechanics
43. Statistical Mechanics
44. Mathematical Physics
- *Index*

**R Murugeshan,** Formerly, Head of Department of Physics, Vivekananda College, Madurai.




## Nuclear Physics (LPSPE)

S N Ghoshal

### About the Book

This well-written text discusses the principles and concepts of Nuclear Physics in a simple and easy-to-understand language. It discusses the structure and properties of atomic nucleus, radioactivity, nuclear radiations, nuclear models, nuclear reactions and accelerators of charged particles. The book also discusses nuclear forces & two-body problem, elementary particles and cosmic rays. It would be extremely useful for undergraduate and postgraduate students of Physics.

### Key Features

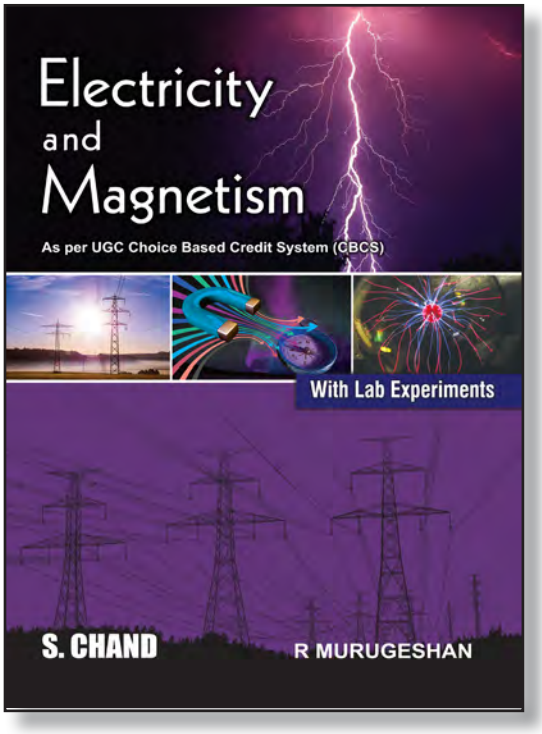
- Increased coverage on topics such as colour charge and the introductory ideals of quantum chromodynamics
- Updated chapter on Nuclear Models
- Inclusion of numerical problems at the end of each chapter for rigorous practice

**ISBN: 9789352837274 | Price: ₹ 595 | Pages: 864 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Rutherford Scattering of Alpha Particles and the Nuclear Model of the Atom, 2. Nuclear Structure and General Properties of Nuclei, 3. Radioactivity, 4. Alpha Particles and Alpha Radioactivity, 5. Beta Particles and Beta Activity, 6. Gamma Rays, 7. Detection of Nuclear Radiations and Their Measurement, 8. Determination of Some Nuclear Properties, 9. Nuclear Models, 10. Nuclear Reactions (I), 11. Nuclear Reactions (II), 12. Accelerators of Charged Particles, 13. Neutrons and Neutron Physics, 14. Nuclear Fission and Nuclear Fusion, 15. Peaceful use of Nuclear Energy, 16. Transuranic and other Artificially Produced Elements, 17. Nuclear Forces and Two-Body Problem, 18. Elementary Particles, 19. Cosmic Rays • *Appendices: I. Electric Quadrupole Moment, II. Theory of Sector Focused Cyclotrons, III. Theory of Alternating Gradient (AG) Focusing using Quadrupole Lens Systems, IV. Derivation of Rarita-Schwinger Equation, V. Vector Addition of Angular Momenta: Clebsch Gorden Coefficients, VI. Theory of Geomagnetic Effects of the Cosmic Rays, VII. Some Fundamental Constants, VIII. Modification Long Form Periodic Table (1984 IUPAC), IX. Properties of Stable Isotopes, X. Table of Elementary Particles • Index*

**S N Ghoshal,** M.Sc., Ph.D., Formaly Principal, Presidency College, Kolkata




# Electricity and Magnetism (As per UGC & CBCS)

R Murugeshan

## About the Book

This textbook has been designed as per the UGC Choice Based Credit System (CBCS) curriculum to meet the requirements of undergraduate students of physics. It extensively covers the fundamental principles, synthesis and physical interpretation of electric and magnetic fields. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

## Key Features

- Close to 400 figures to help visualize and understand the different electromagnetic phenomenon
- More than 170 chapter-end questions to enhance and strengthen learning of the students
- 22 lab experiments to help students make observations, develop hypotheses about phenomena and devise tests to investigate their hypotheses
- Additional Roadmap for the syllabuses of Odisha State, Calcutta, Gauhati, Dibrugarh and Burdwan universities

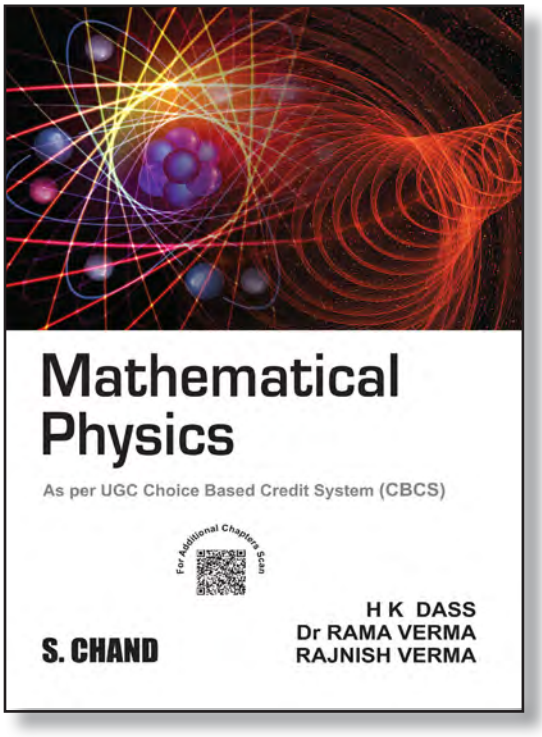
**ISBN: 9789355013293 | Price: ₹ 495 | Pages: 488 | Size: 6.5" X 9.25" (Paperback)**

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THEORY
1: Electric Charges and Fields
2: Gauss's Law and its Applications
3: Electric Potential
4: Capacitors
5: Dielectrics
6: Magnetostatics (Magnetic Effect of Electric Current)
7: Magnetic Properties of Materials
8: Electromagnetic Induction and Maxwell's Equations
9: Alternating Current
10: Network Theorems and Transient Currents

LAB EXPERIMENTS
Introduction to Lab Experiments
Lab Experiments
1: Analog Multimeter
2: Charging and Discharging of a Capacitor through a Resistor
3: Time Constant of an RC Circuit
4: Measurement of Low Resistance Using Potentiometer
5: Carey Foster Bridge
6: Comparison of Capacitances-Desauty's Bridge (A.C. Method)
7: Verification of Thevenin's Theorem
8: Verification of Norton's Theorem
9: Verification of Superposition Theorem
10: Verification of Maximum Power Transfer Theorem
11: Self Inducta-nce of a Coil-Anderson's Bridge
12: Series LCR Circuit
13: Parallel LCR Circuit
14: Charge Sensitivity of Ballistic Galvanometer
15: Current and Voltage Sensitivities of Ballistic Galvanometer
16: High Resistance by Leakage Method-B.G.
17: Determination of Self-inductance of a Coil by Rayleigh's Method
18: Absolute Determination of Mutual Inductance-B.G.
19: Determination of Horizontal Component of the Earth's Magnetic Field-Earth Inductor
20: Determination of the Mutual Inductance of Two Coils by Carey-Foster's Method
21: Construction of One Ohm Coil
22: Measurement of CDR of Ballistic Galvanometer
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**R Murugeshan** MPhil, was formerly head of Physics Department, Vivekananda College, Tiruvedakam. He obtained his MSc degree in applied physics from Calicut University and MPhil degree from Madurai Kamaraj University with specialisation in solar energy. He has 35 years of teaching experience at undergraduate level. A prolific author, Mr. Murugeshan has written several textbooks for under-graduate physics students, such as Modern Physics, Allied Physics, Properties of Matter and Acoustics for BSc, Thermal Physics, Physics-I, Optics and Spectroscopy, Properties of Matter — all published by S Chand And Company Ltd, New Delhi.




# Mathematical Physics (As per UGC CBCS)

H K Dass, Dr. Rama Verma & Er. Rajnish Verma

## About the Book

"Mathematical Physics (CBCS)" is as per the latest prescribed CBCS Syllabus. It focuses on Vector Spaces, Matrix Algebra, Differential & Integral Calculus, Integral Transforms, Infinite Series and Complex Variables. Chapter-end Exercises have been added keeping in mind the CBCS examination format and are divided into Multiple Choice Questions (MCQ), Very Short Answer Type (VSA), Short Answer Type (SA) and Long Answer Type Questions (LA). The book is designed in a very systematic and lucid way that makes this book an ideal choice for undergraduate students.

## Key Features

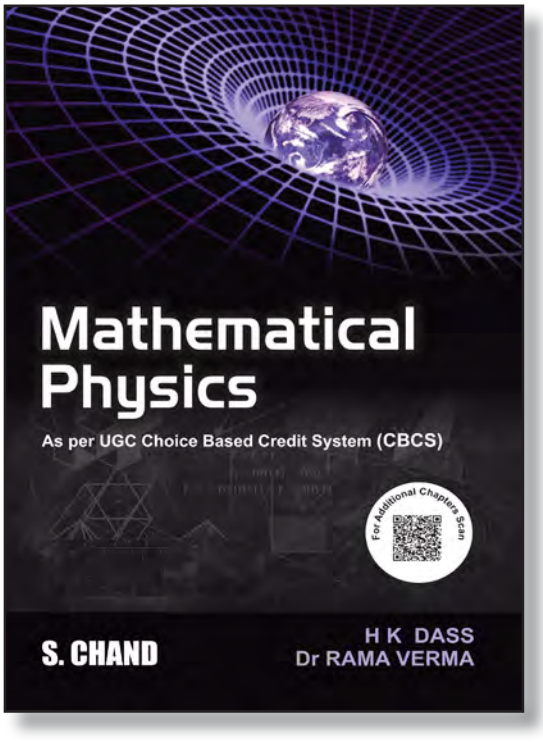
- Comprehensive explanation of all topics is provided with 31 chapters.
- 6 additional chapters on the website
  - Higher Order Partial Differential equations with Constant Coefficient
  - Eigen Values and Eigen Vectors
  - Multiple Integral
  - Probability and Distributions
  - Theory of Error
  - Tensors and Application
- Over 1500 exercise questions, 940 solved examples, and 1100 chapter-end exercises for practice.

**ISBN: 9789355012821 | Price: ₹ 750 | Pages: 1,096 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Limit Continuity and Differentiability
2. Differentiation
3. Partial Differentiation
4. Jacobians
5. Plotting of Functions and Curves
6. Approximations (Binomial and Taylor's Series)
7. First Order Differential Equations
8. Higher Order Linear Differential Equations with Constant Coefficient
9. Cauchy - Euler Equations and Method of Variation of Parameters
10. Simultaneous Differential Equations of First and Second Order
11. Vector Algebra
12. Vectors Differentiation
13. Vector Integration
14. Curvilinear Coordinates
15. Fourier Series
16. Series Solutions of Second Order Differential Equations
17. Legendre's Functions
18. Bessel Functions
19. Hermite and Laguerre Functions
20. Gamma and Beta Functions
21. Applications of Partial Differential Equations
22. Complex Numbers
23. Functions of Complex Variables
24. Complex Integration
25. Taylor's and Laurent's Series
26. The Calculus of Residues
27. Fourier Integral Transform
28. Laplace Transform and Properties
29. Inverse Laplace Transform
30. Direct Delta Function and Properties
31. Algebra of Matrices
- Latest Examination Questions
- Index

**H K Dass**: M.Sc., Diploma in Specialist Studies (Maths), University of Hull England.
**Dr. Rama Verma:** M.Sc. (Gold Medallist), Ph.D., Associate Professor, Mata Sundri College, University of Delhi.
**Er. Rajnish Verma:** Ph.D. (P), Follow IETE, MBA, B.E. Electronics Engineering, DCE/DTU Consultant (Retd) - TCS Ltd., Ex. DGM-CMC Ltd.




# Mathematical Physics (As per UGC CBCS) East

H K Dass, Dr. Rama Verma & Rajnish Verma

## About the Book

Mathematical Physics is a branch of mathematical analysis that emphasizes on the tools and techniques of a particular use to physicists as well as engineers. It focuses on Vector Spaces, Matrix Algebra, Differential Equations, Integral Equations, Integral Transforms, Infinite Series and Complex Variables.

## Key Features

- 30 chapters provide an in-depth coverage of every important concept in the subject.
- "8 additional chapters on the website - Available in the Table of Contents".
- Matrices, • Eigen Values and Eigen Vectors • Multiple Integrals • Theory of Errors
- Probability and Distributions • Tensors Algebra & Applications • Special Theory of Relativity • Calculus of Variation
- Over 900 examples aid to the understanding of, and more than 2300 exercise and chapter-end questions aid to the practice of students.
- Additional Roadmap for the syllabuses of Odisha State, Calcutta, Gauhati, Dibrugarh and Burdwan universities.

**ISBN: 9789355012531 | Price: ₹ 695 | Pages: 1,072 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit-I: Calculus
1. Limit Continuity and Differentiability
2. Differentiation
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6. Approximations (Binomial and Taylor's Series)
7. First Order Differential Equations
8. Higher Order Linear Differential Equations with Constant Coefficient
9. Cauchy - Euler Equations and Method of Variation of Parameters
10. Simultaneous Differential Equations of First and Second Order

**Unit-II: Vector Calculus**
11. Vector Algebra
12. Vectors Differentiation
13. Vector Integration

**Unit-III: Orthogonal Curvilinear Coordinates**
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**Unit-IV: Fourier Series I**
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**Unit-V: Frobenius Method and Special Functions**
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17. Legendre's Functions
18. Bessel's Functions
19. Hermite and Laguerre Functions
20. Gamma and Beta Functions

**Unit-VI: Partial Differential Equations**
21. Applications of Partial Differential Equations

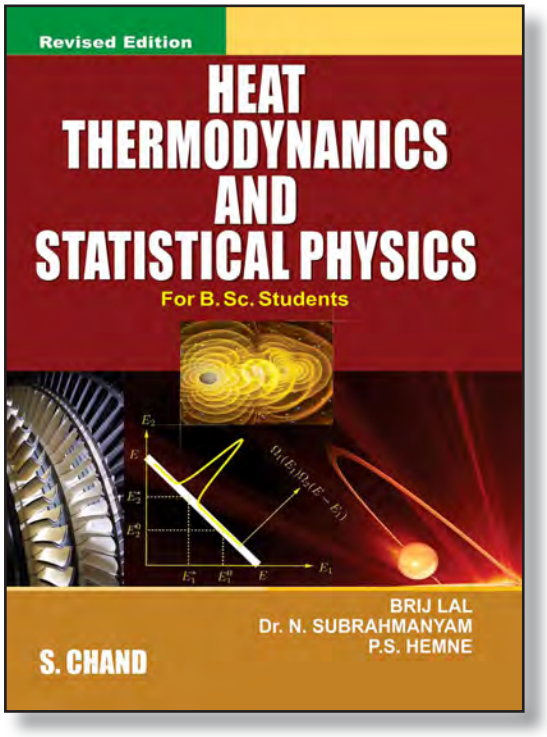
**Unit-VII: Complex Analysis**
22. Complex Numbers
23. Functions of Complex Variables
24. Complex Integration
25. Taylor's and Laurent's Series
26. The Calculus of Residues

**Unit-VIII: Integral Transforms**
27. Fourier Transforms

**Unit-IX: Laplace Transformation**
28. Laplace Transform and Properties
29. Inverse Laplace Transforms

**Unit-X: Dirac-Delta Functions**
30. Direct-Delta Function and its Properties
- Latest Examination Questions
- Index

**H K Dass**: M.Sc., Diploma in Specialist Studies (Maths), University of Hull England.
**Dr. Rama Verma:** M.Sc. (Gold Medallist), Ph.D., Associate Professor, Mata Sundri College, University of Delhi.




# Heat Thermodynamics and Statistical Physics

Multicolour Edition

Brij Lal, N Subrahmanyam & P.S. Hemne

## About the Book

This textbook familiarizes the students with the general laws of thermodynamics, kinetic theory & statistical physics, and their applications to physics. Conceptually strong, it is flourished with numerous figures and examples to facilitate understanding of concepts. Written primarily for B.Sc. Physics students, this textbook would also be a useful reference for students of engineering.

## Key Features

- Inclusion of a chapter on Global Warming
- Over 200+ figures and 250+ examples for effective understanding of the concepts
- More than 700 questions and 180+ objective type questions to help students evaluate their understanding of the concepts

**ISBN: 9788121928137 | Code: 1016B00334 | Price: ₹ 750 | Pages: 688 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Section-I: Kinetic Theory of Matter
1. Ideal Gas
2. Behaviour of Real Gases
3. Transport Phenomena in Gases

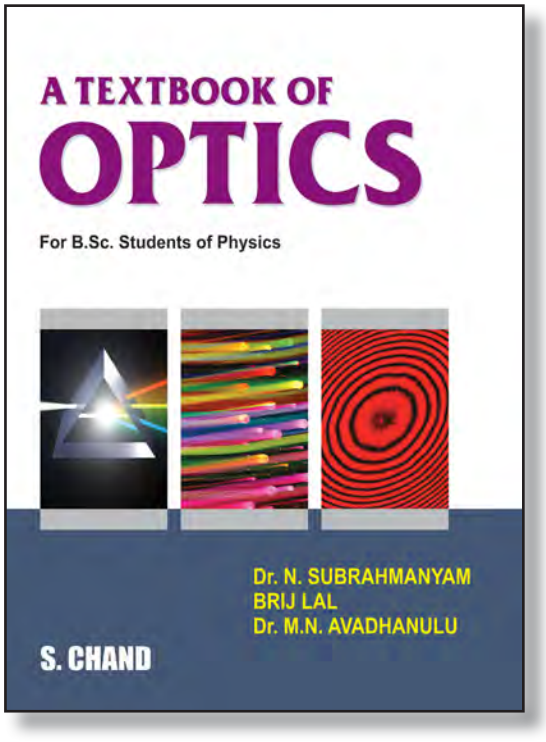
Section-II: Thermodynamics
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5. Entropy
6. Thermodynamical Relationships
7. Liquefaction of Gases (Production of Very Low Temperatures)
8. Radiation

Section-III: Statistical Physics
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16. Change of State
17. Air Conditioning Systems
18. Global Warming

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- *Appendix-II: Nobel Laureates*
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**Brij Lal,** Formerly Reader, Department of Physics, Hindu College, University of Delhi.
**N Subrahmanyam,** Formerly Reader, Department of Physics, Kirori Mal College, University of Delhi.
**P S Hemne,** Principal and Head - Post Graduate Department of Physics, Nevjabai Hitkarini College, Brahmapuri, Nagpur University.




# A Textbook of Optics

N Subrahmanyam, Brij Lal & M N Avadhanulu

Multicolour Edition

## About the Book

This textbook has been designed to provide necessary foundation in optics which would not only acquaint the student with the subject but would also prepare for an intensive study of advanced topics in optics at a later stage. With an emphasis on concepts, mathematical derivations have been kept at the minimum. This textbook has been primarily written for undergraduate students of B.Sc. Physics and would also be a useful resource for aspirants appearing for competitive examinations.

## Key Features

- Comprehensively revised chapters - Polarization (Chapter 20) and Holography (Chapter 23).
- Over 600+ figures and numerous images throughout the text for effective understanding of the concepts
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**ISBN: 9788121926119 | Code: 1016D00306 | Price: ₹ 825 | Pages: 752 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Light
2. Fermat's Principle and its Applications

Ray Optics

3. Reflection and Refraction
4. Lenses
5. Optical System and Cardinal Points
6. Thick Lenses
7. Matrix Methods
8. Dispersion
9. Lens Aberrations
10. Optical Instruments
11. Velocity of Light

Wave Optics

12. Waves and Wave Packets
13. Propagation of Light Waves
14. Interference
15. Interference in Thin Films
16. Coherence
17. Fresnel Diffraction
18. Fraunhoffer Diffraction
19. Resolving Power
20. Polarization

Quantum Optics

21. Mechanism of Light Emission
22. Lasers
23. Holography

Photonics

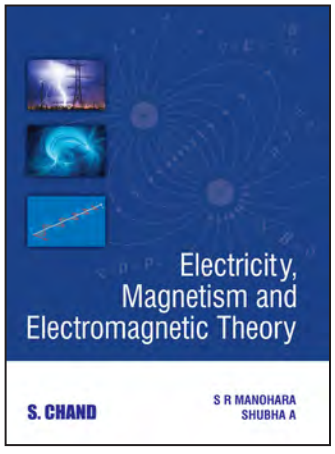
24. Fibre Optics
25. Non-linear Optics
26. Atom Laser

- *Appendix: Noble Laureates in Physics*

**N Subrahmanyam,** Formerly Professor, Department of Physics, Kirori Mal College, University of Delhi, New Delhi.

**Brij Lal,** Reader in Physics, Hindu College, University of Delhi, New Delhi.

**M N Avadhanulu,** Formerly Principal, OM College of Engineering, Wardha, Maharashtra.




## Electricity, Magnetism and Electromagnetic Theory (UGC CBCS)

S R Manohara & Shubha A

### About the Book

*Electricity, Magnetism and Electromagnetic Theory* has been designed to meet the needs of BSc (Physics) students as per the UGC Choice Based Credit System. This textbook provides a thorough understanding of the fundamental concepts of electricity, magnetism and electromagnetic theory. Having a problem-solving approach, it covers the entire spectrum of the subject with discussion on topics such as electrostatics, magnetostatics, electromagnetic induction, Maxwell's equations and electromagnetic wave propagation. The concepts are exhaustively presented with numerous examples and figures/diagrams which would help the students in analysing and retaining the concepts in an effective manner.

### Key Features

- Based on SI units with vector treatment throughout the text
- Coverage on important topics such as energy per unit volume in electrostatic field, energy density in electromagnetic field, transverse nature of EM waves and polarisation of EM waves
- In-depth discussion on topics such as electric field due to spherical shell using Gauss' law, potential due to uniformly charged spherical shell & solid sphere, boundary conditions in electrostatics & magnetostatics and EM wave propagation through vacuum & isotropic dielectric medium
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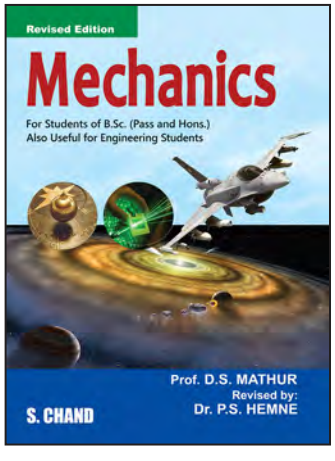
**ISBN: 9789352834402 | Price: ₹ 450 | Pages: 456 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Vector Analysis, 2. Electrostatic Field, 3. Electric Potential, 4. Conductors and Dielectrics, 5. Steady Magnetic Field, 6. Magnetic Fields and Forces, 7. Magnetic Properties of Materials, 8. Electromagnetic Induction, 9. Maxwell's Equations, 10. Electromagnetic Wave Propagation • Appendix-A: Useful Identities, Standard Derivatives, and Integrals • Appendix-B: Names and SI Units of Electric and Magnetic Quantities • Appendix-C: Physical Constants • Appendix-D: Material Constants • Appendix-E: Multiples and Submultiples, and Greek Alphabet • Appendix-F: Maxwell's Equations • Appendix-G: Integral Theorems (Gauss-divergence Theorem and Stokes' Theorem) • Bibliography • Index

**S R Manohara,** PhD, is Associate Professor in the Department of Physics, Siddaganga Institute of Technology, Tumakuru, Karnataka.
**Shubha A** is a Research Scholar, pursuing PhD at Department of Physics, Siddaganga Institute of Technology, Tumakuru.

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## Mechanics

D.S. Mathur & P.S. Hemne

### About the Book

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

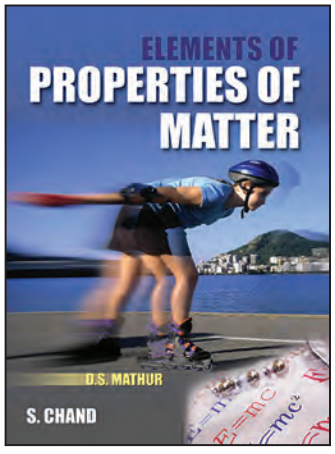
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- Large number of article-wise solved examples based on SI units at chapter end to enable students understand each article well
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## Elements of Properties of Matter

D S Mathur

### About the Book

The book is a comprehensive work on Properties of Matter which introduces the students to the fundamentals of the subject. It adopts a unique 'ab initio' approach to the presentation of matter- solids, liquids and gasses- with extensive usage of Calculus throughout the book. For each topic, the focus is on optimum blend of theory as well as practical application. Examples and extensive exercises solved with the logarithms reinforce the concepts and stimulate the desire among users to test how far they have grasped and imbibed the basic principles. It primarily caters to the undergraduate courses offered in Indian universities.

### Key Features

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- More than 400 numericals at the end of each chapter to test understanding of the concepts
- Eight Appendices as ready reckoner for basic information on properties of matter and Logarithmic and Antilogarithmic table at book end for the ease of the beginners

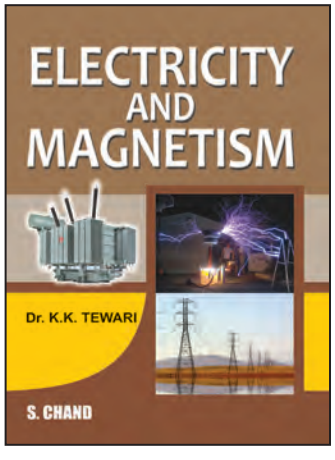
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### Contents

1. Unit and Dimensions, 2. Motion along a Curve – The Projectile, 3. Moment of Inertia – Gyroscopic Motion, 4. Simple Harmonic Motion, 5. Measurement of Mass – The Balance, 6. Acceleration due to Gravity, 7. Gravitation, 8. Elasticity, 9. Hydrostatics, 10. Jet Planes, Rockets and Satellites, 11. Friction and Lubrication – Principle of Virtual work and Its Simple Applications, 12. Flow of Liquids – Viscosity, 13. Diffusion and Osmosis, 14. Surface Tension – Capillarity, 15. Gases – Kinetic Theory, 16. Special Theory of Relativity • *Appendices: Tables of Constants • Logarithmic and Antilogarithmic Tables*

**D.S. Mathur,** Formerly Head of Department - Physics, Hindu College, University of Delhi.

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## Electricity and Magnetism

K.K. Tewari

### About the Book

*Electricity & Magnetism* has been written with an emphasis on basic physics with some instructive, stimulating and useful application. Written purely in SI units, with a complete vector treatment, this book would be extremely useful for the students of B.Sc. Physics and Engineering.

### Key Features

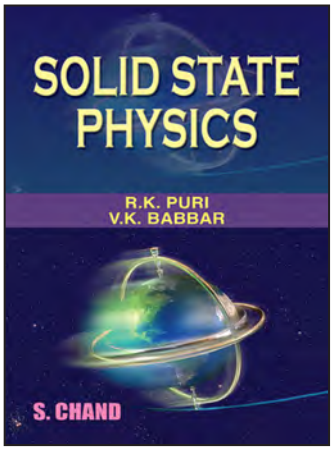
- Physical approach in treatment of polarization and magnetisation
- More than 350 figures for better understanding of the concepts
- Over 200 review questions, 100+ problems and 200+ MCQs to test understanding of the concepts

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**K K Tewari,** Formerly Principal, VSSD College, Kanpur and Ex-Reader, Department of Physics, DAV College, Kanpur.




## Solid State Physics

R K Puri & V K Babbar

### About the Book

This book presents a comprehensive introduction to *Solid State Physics* for undergraduate students of pure and applied sciences and engineering disciplines. It acquaints the students with the fundamental properties of solids starting from their properties. The coverage of basic topics is developed in terms of simple physical phenomenon supplemented with theoretical derivations and relevant models which provides strong grasp of the fundamental principles of physics in solids in a concise and self-explanatory manner.

### Key Features

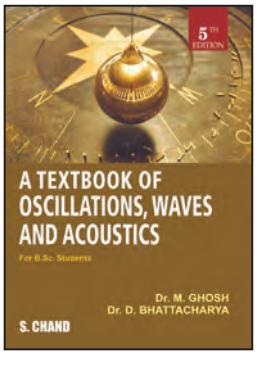
- Discusses interaction of electrons, phonons and atoms in solids based both on classical laws and elements of quantum mechanics
- Rich pedagogy comprising review questions, solved and unsolved problems, chapter summary for quick review
- SI system throughout the book with their conversions to other practical units for easy comprehension of concepts

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**R K Puri,** Formerly Professor, Department of Physics, Indian Institute of Technology, New Delhi.
**V K Babbar,** Formerly Lecturer, Department of Physics, Guru Nanak Dev University, Amritsar.



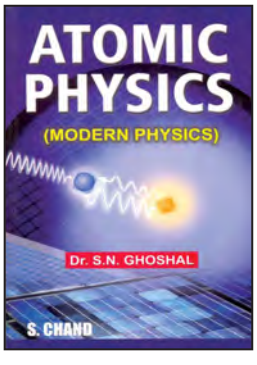

## A Textbook of Oscillations, Waves and Acoustics, 5e

M Ghosh & D Bhattacharya

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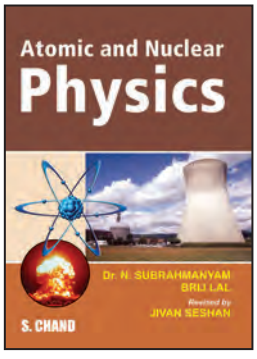

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S N Ghoshal

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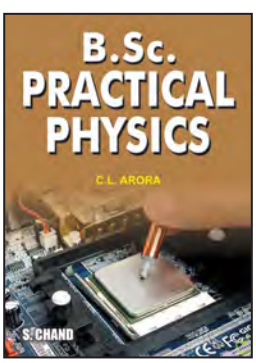

## Atomic and Nuclear Physics

N Subrahmaniyam, Brij Lal & Jivan Seshan

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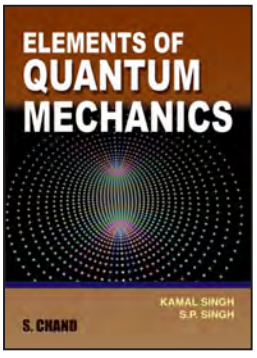

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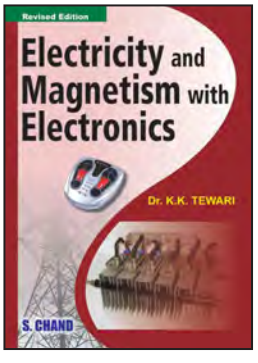

## Elements of Quantum Mechanics

Kamal Singh & S.P. Singh

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### Contents

1. Origin of Quantum Theory, 2. Wave Properties of Matter, 3. Heisenberg's Uncertainty Principle, 4. Schrodinger's Wave Equation, 5. Application of Quantum Mechanics, 6. The Hydrogen Atom, 7. Electron Spin • *Appendices: 1. Relation between Relativistic Energy E and Relativistic Momentum p for a particle, 2. Some Physical Constants and Units, 3. Probability Current Density* • *Index*



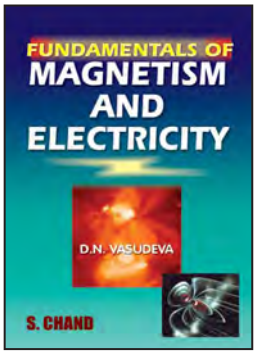

## Electricity and Magnetism with Electronics

K.K. Tewari

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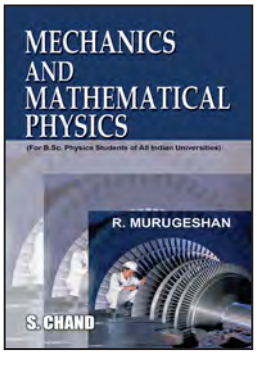

## Fundamentals of Magnetism and Electricity

D N Vasudeva

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### Contents

Part-I: 1. Vector Analysis and its Applications, Part-II: Electrostatics: 2. Law of Inverse Squares, 3. Electrostatic Potential, 4. Capacitance Condensers, 5. Electrometers, 6. Theory of Dielectric, Part-III: Magnetism: 7. Magnetic Field, 8. Magnetometers, 9. Magnetic Inductions, 10. Terrestrial Magnetism, Part-IV: Current Electricity: 11. Steady Current (Cells), 12. Electro Magnetism, 13. Ohm's Law, 14. Electrical Measuring Instruments, 15. Heating Effect of Current and its Applications, 16. Electrical Measurements, 17. Thermoelectricity, Part-V: Electromagnetism: 18. Electromagnetic Induction, 19. Magnetic Properties of Materials, 20. Practical Electromagnetism and Electromagnetic Induction, Part-VI: Alternating Currents: 21. AC Generators, 22. AC Circuits, 23. Electromagnetic Waves, Part-VII: Electronics and Radio Communication: 24. Electronics and Radio Communication, Part-VIII Atomic Physics: 25. Conduction of Electricity through Gases, 26. X-Rays, 27. Photoelectricity, 28. Radioactivity, 29. Atomic Structure, 30. The Nucleus, *Appendices: 1. The Maser and the Laser, 2. Colour Code of Radio Resistors and Condensers, 3. Particulars of Nickel-Chromium Wire for Heater Elements, 4. Some Useful Constants, 5. Formulae on MKS System of Units, 6. Periodic Table of Elements • Index*



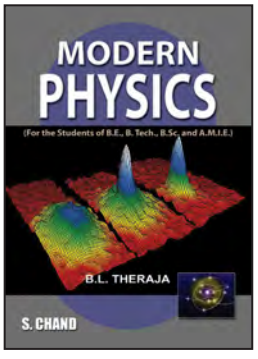

## Mechanics and Mathematical Physics

R Murugeshan

**ISBN: 9788121929134**
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### Contents

1. Impact of Elastic Bodies, 2. Projectile on Inclined Plane, Motion of Two Interacting Bodies and Bifilar Pendulum, 3. Centre of Gravity, 4. Hydrostatics, 5. Hydrodynamics, 6. Classical Mechanics, 7. Vector Analysis, 8. Matrices, 9. The Beta, Gamma Functions and Differential Equations, 10. Classical Mechanics–II, 11. Simple Harmonic Motion, 12. Matrices–II, 13. Centre of Mass, 14. Friction, 15. Laplace Transforms, 16. Electromagnetic Theory, 17. Statistics • *Appendices: I. Kater's Reversible Pendulum, II. General Equation of Continuity in Three Dimensions, III. Problems Selected from University Examination Question Papers*



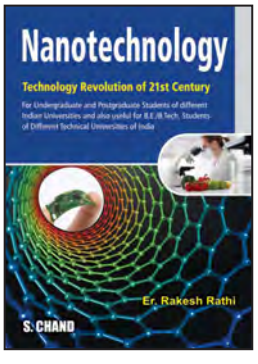

## Modern Physics

B L Theraja

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### Contents

1. Electric and Magnetic Fields, 2. The Electron, 3. The Atomic Structure, 4. Crystallography, 5. Quantum Theory, 6. Bonds in Solids, 7. Classification of Solids, 8. X-rays, 9. Waves and Particles, 10. The Atomic Nucleus, 11. Natural Radioactivity, 12. Artificial Radioactivity, 13. Nuclear Reactions, 14. Nuclear Fission and Fusion, 15. Nuclear Energy Sources, 16. Particle Accelerators, 17. Ultrasonics • *Appendices: A. Diffraction Grating, B. Values of Physical Constants, C. Table of Elements • Index*



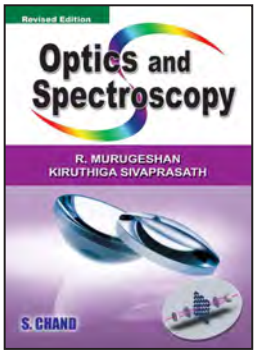

## Nanotechnology: Technology Revolution of 21st Century

Rakesh Rathi

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### Contents

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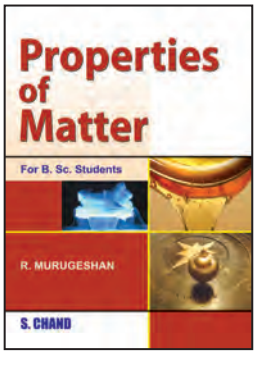

## Optics and Spectroscopy

R Murugeshan &
Kiruthiga Sivaprasath

**ISBN: 9788121914413**
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### Contents

1. Geometrical Optics, 2. Interference, 3. Diffraction, 4. Polarisation of Light, 5. Spectroscopy, 6. Matrix Method in Paraxial Optics, 7. Coherence, 8. Fibre Optics, 9. Holography, 10. Electromagnetic Waves, 11. Dispersion and Scattering, 12. Laser, 13. Interference-II, 14. Magnification of a Lens System, 15. Stimulated Raman Scattering, 16. Polarisation-II (Matrix Method), 17. Fermat's Principle, 18. Huygens' Principle and its Applications, 19. Classical and Modern Geometrical Optics, 20. Interference and Diffraction of Light, 21. Doppler Effect in Light and its Applications, 22. Cornu's Spiral, 23. Lasers-II, 24. Rainbow, 25. Magneto-Optics and Electro-Optics, 26. Nonlinear Optics, 27. Fibre Optics–II, 28. Holography–II, 29. Interference–III, 30. Diffraction of Light (IV), 31. Polarisation of Light-III, 32. Twyman and Green Interferometer, 33. Crystal Optics, 34. Chauchy's Dispersion Formula, 35. Optical Activity, 36. Geometrical Optics-II, 37. Interference of Light-IV, 38. The Echelon Grating and its Resolving Power, 39. Laser in Industry, 40. Photonics, 41. Fibre Optic Sensors, 42. Fibre Characteristics and Classification, 43. Optical Fibre as a Cylindrical Waveguide, 44. Fibre Losses, 45. Dispersion in Optical Fibres, 46. Optical Fibre Communication System, 47. Optical Fibre Fabrication, 48. Electromagnetic Waves-II, 49. Spectroscopy • *Appendix*



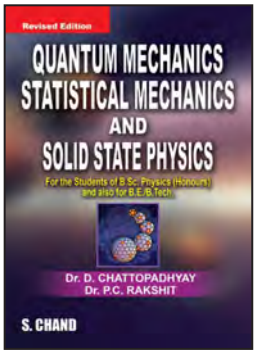

## Properties of Matter

R Murugeshan

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### Contents

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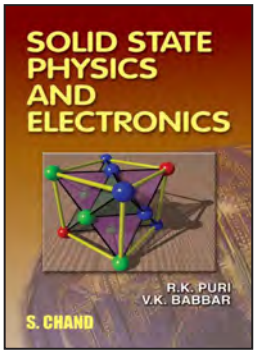

## Quantum Mechanics, Statistical Mechanics and Solid State Physics

D Chattopadhyay &
P C Rakshit

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### Contents

Quantum Mechanics: 1. Introductory Ideas, 2. The Schrodinger Wave Equation, 3. Free Particles and Wave Packets, 4. Application of Quantum Mechanics to Some Potential Problems, 5. The Harmonic Oscillator, 6. Spherically Symmetric Potential and the Hydrogen Atom, Statistical Mechanics: 1. Basic Concepts, 2. Fermi – Dirac and Bose-Einstein Statistics, 3. Third Law of Thermodynamics, Solid State Physics: 1. Crystals and their Properties, 2. X-Ray Crystal Analysis, 3. Band Theory of Solids, 4. Transport Phenomena in Metals and Semiconductors, 5. Specific Heat of Solids and Lattice Vibrations, 6. Dielectric Properties of Solids, 7. Magnetic Properties of Solids, 8. Superconductivity • *Miscellaneous Problems* • *Objective Type Questions* • *Index*



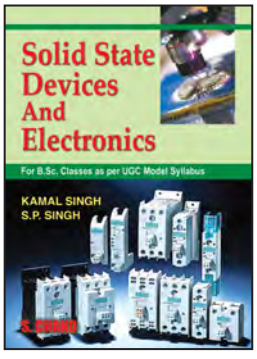

## Solid State Physics and Electronics

R K Puri & V K Babbar

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### Contents

1. Crystal Structure, 2. X-Ray Diffraction and Reciprocal Lattice, 3. Bonding in Solids, 4. Lattice Vibrations, 5. Free Electron Theory of Metals, 6. Band Theory of Solids, 7. Semiconductors, 8. Magnetism in Solids, 9. Dielectric Properties of Solids, 10. Superconductivity, 11. Junction Diodes, 12. Rectifiers, 13. Transistors and Amplifiers, 14. Oscillators, 15. Modulation and Demodulation, 16. Cathode Ray Oscilloscope, 17. Radio Communication and Television, 18. Logic Gates • *Appendix-I: Voltage and Current Sources* • *Appendix-II: Thevenin's and Norton's Theorems* • *Appendix-III: Table of Physical Constants and Conversion Factors Index* • *References* • *Index*



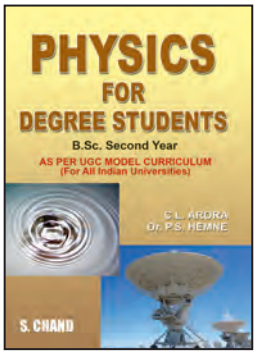

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Kamal Singh & S P Singh

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### Contents

1. Semiconductors, 2. Semiconductor Devices, 3. Power Supply, 4. Characteristics of Bipolar Transistors, 5. Low Frequency Equivalent Circuits, 6. Bias Stability and Thermal Runaway, 7. Field Effect Transistors, 8. Small Signal Amplifiers, 9. Miscellaneous Amplifiers • *Appendices: 1. Network Theorems, 2. Evaluation of the Integra, 3. Some Physical Constants and Units, 4. Properties of Ge, Si, and GAS at 300 K • Index*



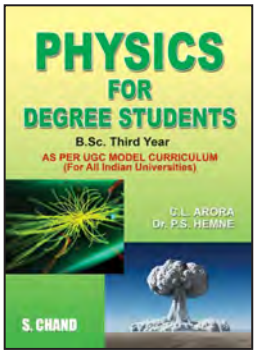

## Physics for Degree Students (For B.Sc. Second Year)

C L Arora & P S Hemne

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### Contents

Section-I: Kinetic Theory of Matter: 1. Ideal Gas, 2. Behaviour of Real Gases, 3. Transport Phenomena in Gases, Section-II: Thermodynamics: 4. Laws of Thermodynamics, 5. Entropy, 6. Thermodynamical Relationship, 7. Liquefaction of Gases, 8. Radiation, Section-III: Statistical Physics: 9. Statistical Basis of Thermodynamics, 10. Some Universal Laws in Statistical Mechanics, 11. Maxwell-Boltzmann Statistics, 12. Quantum Statistics, Section-IV: Waves: 13. Waves in Media, 14. Superposition of Waves, 15. Standing Waves, Section-V: Acoustics: 16. Noise and Music, 17. Reflection, Refraction and Diffraction of Sound, 18. Applied Acoustics Section-VI: Geometrical Optics: 19. Fermat's Principle, 20. Theory of Imager Formation, 21. Aberration in Images, 22. Optical Instruments, Section-VII: Physical Optics: 23. Interference of Light, 24. Haidinger Fringes, 25. Fresnel Diffraction, 26. Fraunhofer Diffraction, 27. Diffraction Grating, 28. Polarization of Light, Section-VIII: Lasers: 29. Laser System and Non-Linear Optics, 30. Types of Lasers and Their Applications



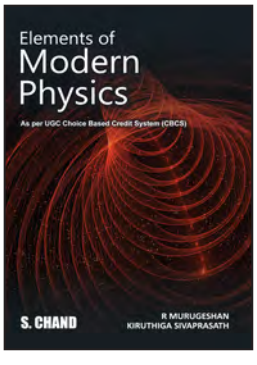

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### Contents

Section-I: Relativity: 1. Reference Systems, 2. Special Theory of Relativity, Section-II: Quantum Mechanics: 3. Origin of Quantum Theory, 4. Quantum Theory: Wave-Particle Duality, 5. Heisenberg's Uncertainty Principle, 6. Schrödinger's Theory of Quantum Mechanics, 7. Schrödinger's Theory of Hydrogen Atom, Section-III: Atomic Physics: 8. Atom with One Electron, 9. Atoms with Many Electrons, 10. X-rays, Section-IV: Molecular Physics: 11. Vibrational and Rotational Spectra, 12. Raman Effects, 13. Spectroscopic Techniques, Section-V: Nuclear Physics: 14. Nuclear Detectors, 15. Structure of Nuclei, 16. Nuclear Models, 17. Nuclear Reactions, Section-VI: Solid State Physics: 18. Crystal Structure, 19. X-ray Diffraction, 20. Magnetic Properties of Solids, 21. Thermal Properties of Solids (Lattice Vibrations), 22. Free Electron Theory of Metals, 23. Band Theory of Solids, Section-VII: Solid State Devices: 24. Semiconductors, 25. Semiconductor Devices, Section-VIII: Electronics: 26. Power Supply, 27. Characteristics of Transistors, 28. Field Effect Transistors, 29. Small Signal Amplifiers, 30. Hybrid Equivalent Circuits and Noise • *Index*




## Elements of Modern Physics: (As per UGC-CBCS Curriculum)

R Murugeshan & Kiruthiga Sivaprasath

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### About the Book

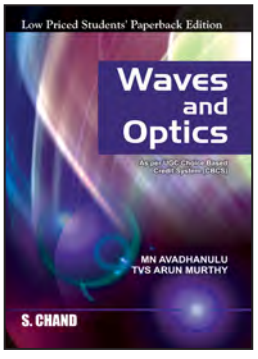
This textbook has been designed as per the UGC Choice Based Credit System (CBCS) curriculum to meet the requirements of undergraduate students of physics. It extensively covers the fundamental principles, synthesis and physical interpretation of atomic physics, quantum mechanics, nuclear physics and lasers. Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures.

### Key Features

- 14 lab experiments to help students make observations, develop hypotheses about phenomena and devise tests to investigate their hypotheses
- More than 275 well-labelled diagrams for easy understanding of the concepts
- Over 175 chapter-end questions to enhance and strengthen learning of the students
- Additional Roadmap for the syllabuses of Odisha State, Calcutta, Gauhati, Dibrugarh and Burdwan universities

### Contents

Part I: Atomic Physics, 1: Structure of the Atom, 2: Photoelectric Effect and Planck's Quantum Theory, Part II: Quantum Mechanics, 3: Wave Properties of Particles, 4: Schrödinger Equation and its Applications, 5: Quantum Theory of the Hydrogen Atom, 6: Operator Formalism of Quantum Mechanics, 7: Identical Particles and Spin, 8: Scattering Theory, Part III: Nuclear Physics, 9: Introduction to the Nucleus, 10: Radioactivity, 11: Nuclear Fission and Fusion, Part IV: Lasers, 12: Lasers, LAB EXPERIMENTS, Introduction to Lab Experiments, 1: Measurement of Planck's constant using a Photo-Electric Cell, 2: Characteristic Curves of a Photoelectric Cell, 3: Determination of Work Function of Material of Filament of Directly Heated Vacuum Diode, 4: Determination of Planck's constant Using LEDs, 5: Emission Spectrum of Hydrogen (Determination of the Wavelength of H-alpha Emission Line of Hydrogen Atom), 6: Determination of Ionisation Potential of Mercury, 7: Absorption Spectrum of Iodine Vapour Using Spectrometer, 8: Specific Charge (e/m) of Electron-Magnetic Focusing Method, 9: Determination of e/m for the Electron, 10: Determination of the Electronic Charge: Millikan's Oil-drop Method, 11: Tunnel Diode, 12: Measurement of Wavelength of Laser Source Using Single Slit Diffraction, 13: Wavelength and Angular Spread of He-Ne Laser Using Plane Diffraction Grating, 14: Determination of the Excitation Potential of Mercury/Argon by Franck-Hertz Experiment, • Index




## Waves and Optics: As per CBCS

M N Avadhanulu &
TVS Arun Murthy

**ISBN: 9789355013316**
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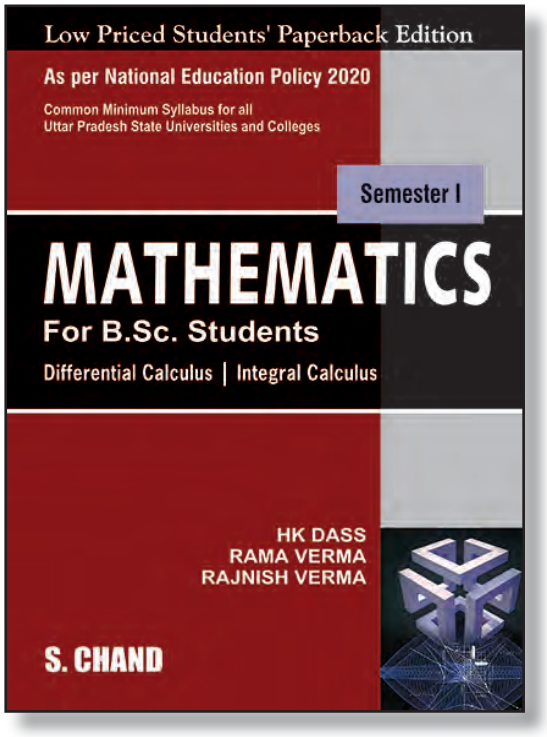
This textbook has been designed to meet the requirements of undergraduate students of Physics and aptly covers the subject by including but not limiting it to Harmonic motion, Waves (Motion, Velocity, Optics), Interference, Diffraction and its different types. Every chapter contains a mix of Multiple-Choice Questions, Fill-in the Blanks and Short- and Long-answer questions to enhance and strengthen learning quotient. Lab experiments have been provided at the end of the book for the practical aspect of the subject and range from Melde's Experiment to Schuster's Focusing. Written in a lucid and concise manner, the textbook has an adept balance between theory with practice.

### Key Features

- Fourteen Chapters are divided in smaller parts and sub-headings to make to reading easy from one topic to another
- Fundamental concepts are emphasized in each chapter and details are developed in an easy-to follow style
- Fill-in the Blanks and Multiple-Choice Questions at the end of each chapter for better understanding of the concepts.

### Contents

1. Simple Harmonic Motion, 2. Superposition of Two Collinear Harmonic Oscillations Fuel, 3. Superposition of Two Perpendicular Harmonic Oscillations, 4. Wave Motion, 5. Velocity of Waves, 6. Superposition of Two Harmonic Waves, 7. Wave Optics, 8. Interference of Light-1 (Division of Amplitude), 9. Interference of Light-2 (Division of Wave Front), 10. Interferometry, 11. Diffraction of Light, 12. Fraunhofer Diffraction,13. Fresnel Diffraction, 14. Holography




# Mathematics for B.Sc. Students Semester I (NEP 2020 - Uttar Pradesh)

HK Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Mathematics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. A methodical text, which mirrors the flow of the units of the syllabus, has been created with a focus on developing mathematical skills in both Differential and Integral Calculus and enables the reader to possess an in-depth knowledge of the subjects. Apart from this, topics such as Convergence and Divergence of Series, Successive Differentiation, Partial Differentiation, Riemann Integral: Fundamental Theorems of Integral Calculus, Vector Differentiation and Integration have been well-explained.

## Key Features

- Divided in Eight Units which are sub-divided in 27 chapters for a 100% coverage of the recommended syllabus.
- Over 500 examples in the text illustrate all major topics thereby providing ample support to the theory explained
- More than 75 practice sets which carry close to 1200 questions provide rich practice.

**ISBN: 9789355012784 | Price: ₹ 450 | Pages: 584 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit I
1. Ancient Indian Mathematics
2. Sequence and Series
3. Convergence and Divergence of Series

Unit II
4. Limit, Continuity and Differentiability
5. Indeterminate Forms

Unit III
6. Mean Value Theorems
7. Taylor and Maclaurin Series
8. Successive Differentiation
9. Partial Differentiation

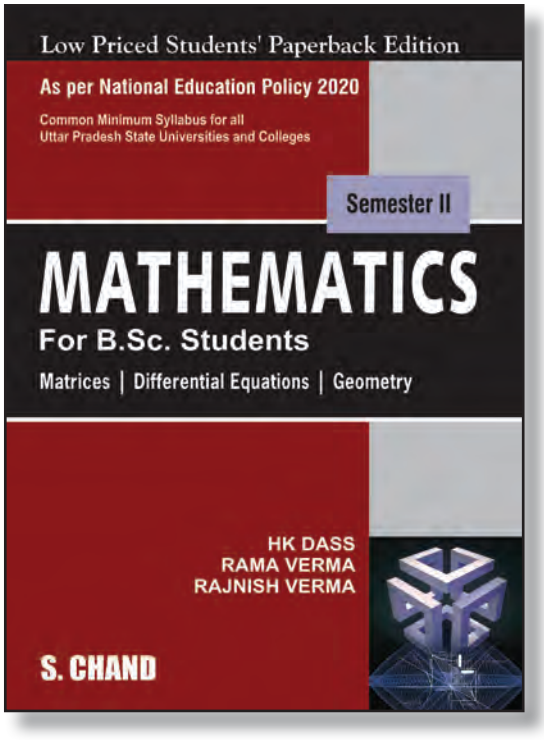
Unit IV
10. Tangents and Normals
11. Asymptotes Cartesian Coordiantes Only
12. Curvature
13. Envelope and Evolutes
14. Concavity, Convexity and Point of Inflexion
15. Tracing of Curves

Unit V
16. Riemann Integrals Fundamental Theorem of Calculus
17. Mean Value Theorems of Integral Calculus
18. Differentiation Under Integrals

Unit VI
19. Convergence of Improper Integrals
20. Gamma and Beta Functions

Unit VII
21. Rectification
22. Surface and Volume of Solids of Revolution
23. Double Integration
24. Triple Integrals
25. Change of Order of Double Integration

Unit VIII
26. Vector Differentiation
27. Vector Integration




# Mathematics for B.Sc. Students Semester II (NEP 2020 - Uttar Pradesh)

HK Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

A methodical text, which mirrors the flow of the units of the syllabus, has been created with a focus on developing mathematical skills in algebra, calculus and analysis and enables the reader to possess an in-depth knowledge of the subjects. Apart from this, topics such as rank, eigen values of matrices, linear homogeneous and non-homogeneous equations and differential equations have been well-explained.

## Key Features

- Divided in Eight Units which are sub-divided in 31 chapters for a 100% coverage of the recommended syllabus.
- Over 700 examples in the text illustrate all major topics thereby providing ample support to the theory explained.
- More than 100 practice sets which carry close to 1500 questions provide rich practice.
- Roadmap as per the National Education Policy 2020 (NEP 2020) has been provided in the text.

**ISBN: 9789355014153 | Price: ₹ 495 | Pages: 768 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**UNIT - I**
1. Algebra of Matrices,
2. Rank of a Matrix
3. Inverse of Matrix by Elementary Operation
4. Consistency of System of Homogeneous and Non-homogeneous Equations

**UNIT - II**
5. Eigen Values, Eigen Vectors and Characteristic Equation of Matrix
6. Cayley-Hamilton Theorem and Inverse
7. Complex Numbers

**UNIT - III**
8. First Order Differential Equations
9. Linear and Exact Differential Equations

**UNIT - IV**
10. First order Higher Degree Differential Equations
11. Linear Differential Equation of Order Greater than one with Constant Coefficients
12. Cauchy-Euler Differential Equations

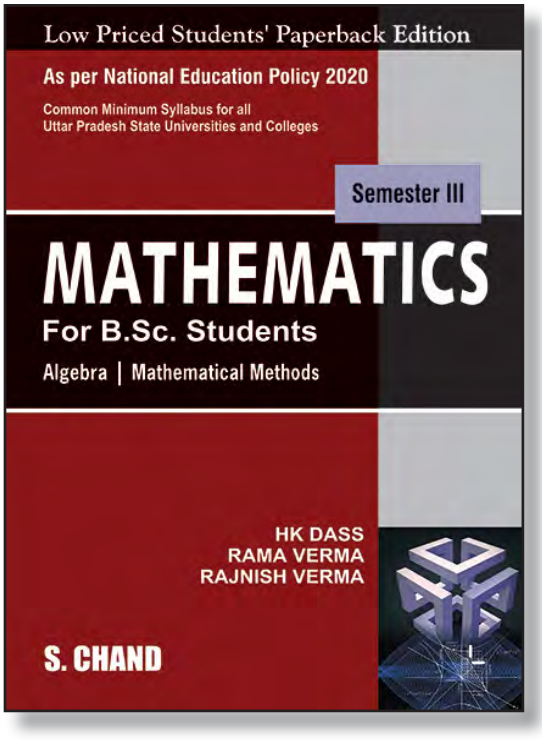
**UNIT - V**
13. General Equation of Second-Degree Conics
14. Tracing of Conics
15. System of Conics
16. Confocal Conics
17. Polar Equation and Properties of Conics

**UNIT - VI**
18. Three - Dimensional Coordinates
19. Direction Cosines and Projection
20. Plane: Cartesian Form
21. Plane: Vector Form
22. Straight Line in Three Dimensions

**UNIT - VII**
23. Sphere
24. Cone
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UNIT - VIII
26. The Conicoid
27. Paraboloids
28. Plane Sections of Conicoid
39. Generating Lines Conicoids
30. Reduction of Second Degree Conicoids
31.Confocal Conicoids

- Practice Exercises
- Index




# Mathematics for B.Sc. Students Semester III (NEP 2020 - Uttar Pradesh)

HK Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

"This textbook has been designed to meet the needs of B.Sc. Third Semester students of Mathematics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 (NEP 2020). A methodical text, which mirrors the flow of the units of the syllabus, has been created with a focus on developing mathematical skills in algebra and mathematical methods and it enables the reader to possess an in-depth knowledge of the subjects. To achieve this, topics such as Ring and Field, Lagrange Multiplier Method, Jacobians, Laplace Transform and Properties, Fourier Series and Integral Transform are well explained.

## Key Features

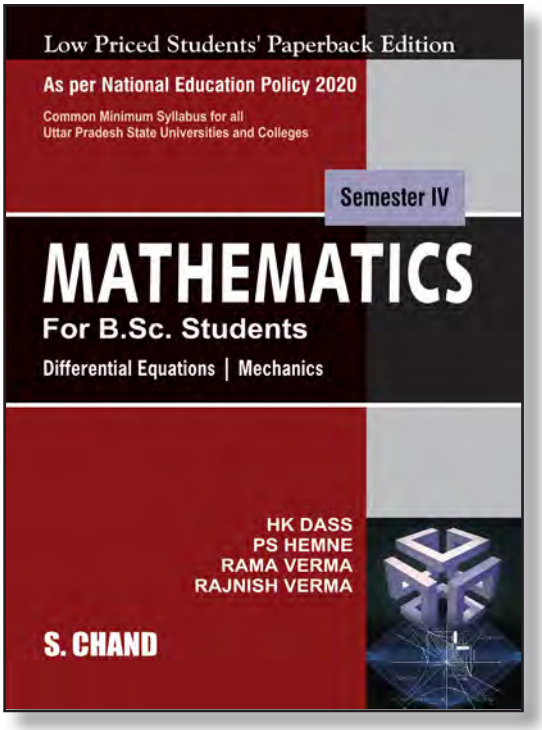
- Divided in Eight Units which are sub-divided in 20 chapters for a 100% coverage of the recommended syllabus
- Over 300 examples in the text illustrate all major topics thereby providing ample support to the theory explained
- More than 50 Exercises which carry close to 500 questions provide rich practice

**ISBN: 9789355012791 | Price: ₹ 395 | Pages: 408 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit I
1. Ancient Indian Mathematics
2. Equivalence Relation and Partitions
3. Group, Subgroup and Cyclic Groups
Unit II
4. Permutation Groups
5. Fermat and Euler Theorems
Unit III
6. Normal Subgroup and Quotient Group
7. Homomorphism and Isomorphism
Unit IV
8. Ring and Field
Unit V
9. Limit, Continuity and Differentiability of Function of Two Variables
10. Taylor's Theorem for two Variables
11. Maxima and Minima for Function of two Variables
12. Lagrange Multiplier Method
13. Jacobians
Unit VI
14. Laplace Transform and Properties
15. Inverse Laplace Transform
16. Solution of Differential Equations Using Laplace Transform
Unit VII
17. Fourier Series
18. Fourier Integral Transform
19. Finite Fourier Transform
Unit VIII
20. Calculus of Variation

(NEP 2020, CMS, Uttar Pradesh State Universities)




# Mathematics for B.Sc. Students Semester-IV ( NEP-2020-Uttar Pradesh)

Dr. P.S. Hemne & C.L. Arora

## About the Book

"This textbook has been designed to meet the needs of B.Sc. Fourth Semester students of Mathematics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. To possess an in-depth knowledge of the subjects, topics such as Second Order Linear Differential Equations with Variable Coefficients, Method of Undetermined Coefficients, Variation of Parameters, Series Solutions of Differential Equations, Bessel, Legendre and

Hypergeometric Functions and their Properties, Partial Differential Equations of First Order and First Degree and Degree Greater than One, and Solution of Second Order Partial Differential Equations with Variable Coefficients are well explained in Differential Equations. Mechanics part describes the topics such as Mechanics of a Rigid Body, Equilibrium of a System of Forces, Curvilinear Motion and S.H.M., and Motion Under a Central Force in lucid manner.

## Key Features

- Differential Equations is Divided in Four Units which are further sub-divided in 13 chapters for a 100% coverage of the recommended syllabus
- Close to 250 examples in the text illustrate all major topics thereby providing ample support to the theory explained
- Close to 500 questions (short- and long-answer) strengthen the well explained theoretical concepts.

**ISBN: 9789355016966 | Price: ₹ 399 | Pages: 424 | Size: 6.5" X 9.25" (Paperback)**

## Contents

PART-A: DIFFERENTIAL EQUATIONS

Unit I

1. Second Order Linear Differential Equations with Variable Coefficients
2. Method of Undetermined Coefficients
3. Variation of Parameters
4. Series Solutions of Differential Equations

Unit II

5. Bessel Function and Properties
6. Legendre Function and Properties
7. Hypergeometric Function and Properties

Unit III

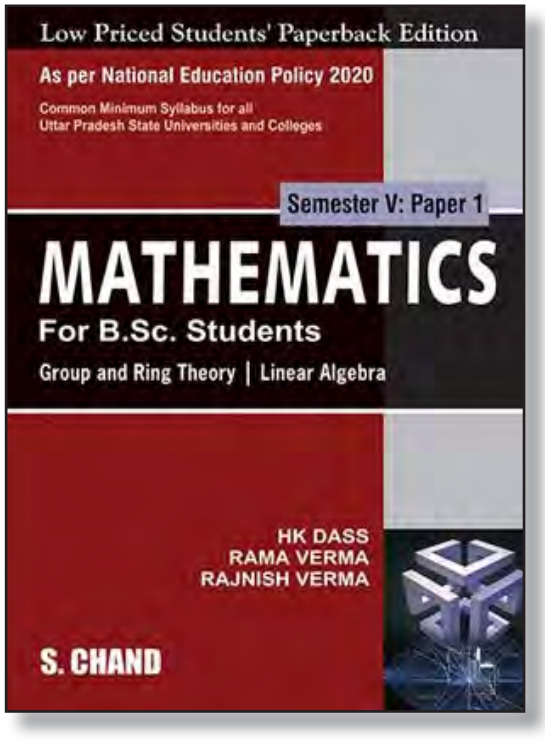
8. Partial Differential Equations of First Order and First Degree
9. Partial Differential Equations of First Order & Degree Greater than One
10. Surfaces Orthogonal to the Given System of Surfaces

Unit IV

11. Origin and Solution of Partial Differential Equations of Second and Higher Order with Constant Coefficients
12. Classification of Linear Partial Differential Equations of Second Order
13. Solution of Second Order Partial Differential Equations with Variable Coefficients

PART-B: MECHANICS

1. Mechanics of a Rigid Body
2. Equilibrium of a System of Forces
3. Curvilinear Motion and S.H.M.
4. Motion Under a Central Force




# Mathematics For B.Sc. Students: Semester V: Paper 1 | Group and Ring Theory | Linear Algebra - NEP 2020 For the Universities of Uttar Pradesh

H K Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

This textbook has been specifically developed as per latest curriculum on the directives of NEP 2020 - For the Universities of Uttar Pradesh for B.Sc. Students of Mathematics for the Fifth Semester. To possess an in-depth knowledge of the subjects, topics such as Automorphism, Conjugacy Classes and p-groups, The Sylow Theorems and Applications, Finite Simple Groups, Rings of Polynomials, Divisibility in Integral Domains, Vector Spaces and Subspaces, Linear Transformations, Rank and Nullity, Cayley Hamilton Theorem, Inner Product Spaces and Norms, Bilinear and Quadratic Forms etc. are well explained are explained thoroughly and followed by numerous examples and practice exercises. Questions from Universities Latest Examination papers are included at the end for smart revision and practice.

## Key Features

- Very lucid and logical presentation of concepts, for easy and quick understanding.
- Close to 300 solved examples for better understanding of almost every Article or topic is included.
- Close to 300 practice exercise questions from various University examination papers are also compiled

**ISBN: 9789355018588 | Price: ₹ 325 | Pages: 312 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**Part A: Group and Ring Theory**

**Unit I:**

1. Indian Ancient Mathematics and Mathematicians
2. Automorphism

**Unit II**

3. Conjugacy Classes and p-groups
4. The Sylow Theorems and Applications
5. Finite Simple Groups
6. Generalized Cayley's, Index, Embedding Theorems and Applications

**Unit III**

7. Rings of Polynomials
8. Factorisation of Polynomials

**Unit IV**

9. Divisibility in Integral Domains
10. Unique Factorization Domain

**Part B: Linear Algebra**

**Unit V**

11. Vector Spaces
12. Subspaces
13. Linear Independence and Dependence of Vectors
14. Basis and Dimension

**Unit VI**

15. Linear Transformations
16. Rank and Nullity

**Unit VII**

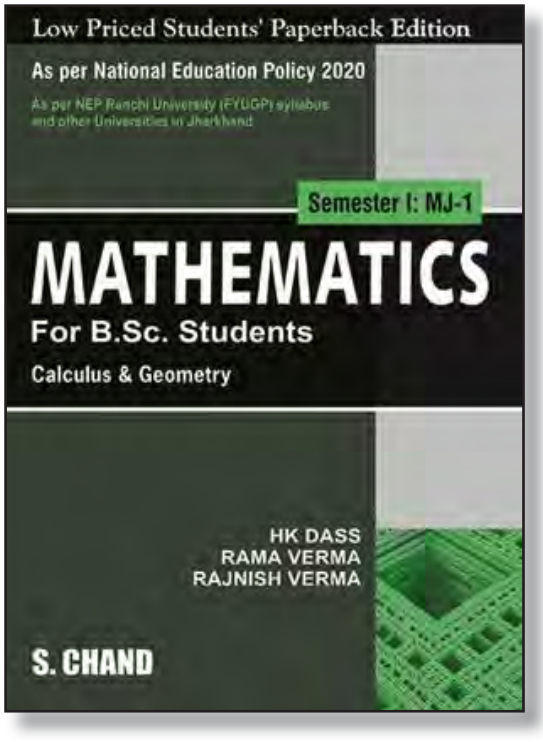
17. Linear Functional, Dual Space and Characteristic Values
18. Cayley Hamilton Theorem

**Unit VII**

19. Inner Product Spaces and Norms
20. Bilinear and Quadratic Forms

Previous Years Universities Examination Questions
Group, Ring and Linear Algebra

(NEP 2020, CMS, Uttar Pradesh State Universities)




# Mathematics For B.Sc. Students: Semester I, MJ-1 (Calculus & Geometry): For Ranchi University and other Universities in Jharkhand, FYUGP, Common Course under NEP 2020

H K Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Mathematics as per Common Minimum Syllabus prescribed for Ranchi University and other Universities and Colleges under the recommended National Education Policy 2020 in Jharkhand. To possess an in-depth knowledge of the subjects, topics such as Differentiability of a Function, Chain Rule of Differentiation, Mean Value Theorems, Darboux Theorem, Successive Differentiation: Leibniz's Theorem, Maclaurin and Taylor's Theorems, Curvature, Asymptotes and Curve Tracing, Integration of Rational and Irrational Functions, Definite and Special Integrals, Reduction Formulae, Length and Area Bounded by Plane Curves, Volume and Surface Area of Solid of Revolution, Planes, Straight Lines and Spheres etc. are well explained.

## Key Features

- Very lucid and logical presentation of concepts, for easy and quick understanding.
- Close to 450 solved examples for better understanding of almost every Article or topic is included.
- Close to 800 practice exercise questions from various University examination papers are also compiled.
- A comprehensive Index is also provided to search and locate a required topic.

**ISBN: 9789355018366 | Price: ₹ 450 | Pages: 432 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**Unit I: Differentiability**
1. Differentiability of a Function
2. Chain Rule of Differentiation
3. Mean Value Theorems
4. Successive Differentiation: Leibniz's Theorem

**Unit II: Expansion of Functions**
5. Maclaurin and Taylor's Theorems
6. Maxima and Minima

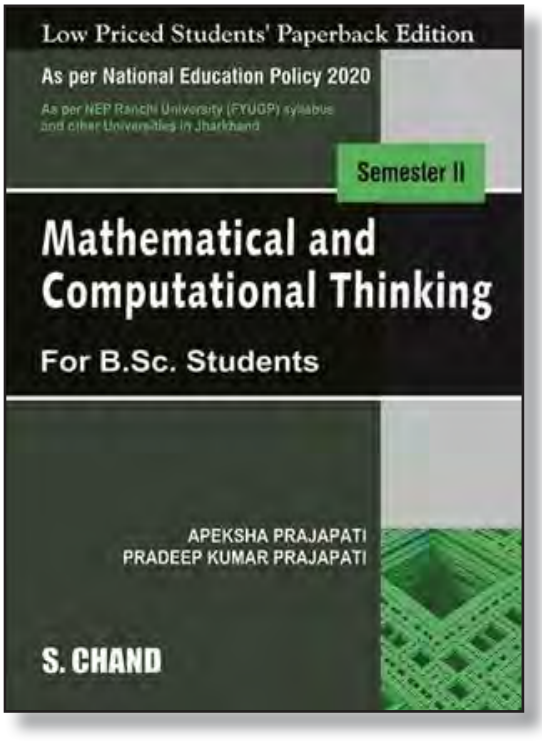
**Unit III: Curvature, Asymptotes and Curve Tracing**
7. Curvature
8. Asymptotes
9. Concavity, Convexity and Point of Inflexion
10. Tracing of Curves

**Unit IV: Integral Calculus**
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12. Evaluation of Definite and Special Integrals
13. Differentiation and Integration Under Sign of Integration
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**Unit V: Geometry of Integral Calculus**
15. Length and Area Bounded by Plane Curves
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**Unit VI: Planes, Straight Lines and Spheres**
17. Plane
18. Straight Line
19. Sphere

Questions from Latest Examinations Index
Questions from Latest Examination Papers Index




# Mathematical and Computational Thinking, For Ranchi and other Universities in Jharkhand, FYUGP, Semester II, Common Course under NEP 2020

Apeksha Prajapati & Pradeep Kumar Prajapati

## About the Book

This textbook has been specifically developed on the directives of National Education Policy (NEP 2020) and is as per latest curriculum of B. Sc. Students (Second Semester) for Ranchi University and other Universities in Jharkhand. The book provides a comprehensive introduction in the field of Mathematics and Computation. The book covers important topics such as Statistics, Probability, Linear Programming Problem, Components of Computational Analysis, The Elements of Computational Thinking, Greedy Method, Divide-and-Conquer, Pseudocode, Introduction to Data and Excel, Organize Data in Excel, Data Formatting, Data Analysis, Charts in Excel etc. are well explained.

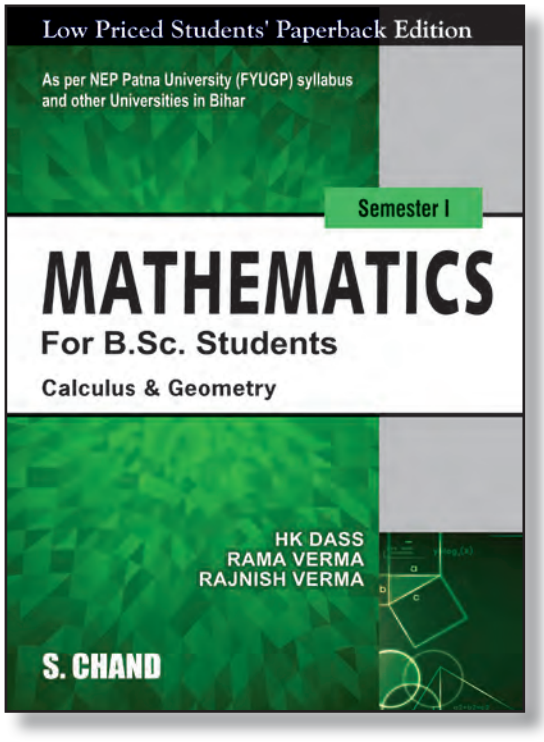
## Key Features

- Very lucid and logical presentation of concepts, for easy and quick understanding.
- Close to 125 solved examples for better understanding of almost every topic is included.
- Close to 150 practice exercise questions are included to help readers develop their skills and apply what they have learned.

**ISBN: 9789355018298 | Price: ₹ 175 | Pages: 168 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Statistics,
2. Probability
3. LPP: Linear Programming Problem
4. Computational Thinking and Analysis - I
5. Computational Thinking and Analysis - II




# Mathematics for B. Sc. Students, Semester- I, Calculus and Geometry, (NEP 2020 Patna)

H K Dass, Rama Verma and Rajnish Verma

## About the Book

This textbook has been designed to meet the needs of B.Sc. First Semester students of Mathematics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar. To possess an in-depth knowledge of the subjects, topics such as Differentiability of a Function, Chain Rule of Differentiation, Mean Value Theorems, Darboux Theorem, Successive Differentiation: Leibniz's Theorem, Maclaurin and Taylor's Theorems, Curvature, Asymptotes and Curve Tracing, Integration of Rational and Irrational Functions, Definite and Special Integrals, Reduction Formulae, Length and Area Bounded by Plane Curves, Volume and Surface Area of Solid of Revolution, Planes, Straight Lines and Spheres etc. are well explained.

## Key Features

- Very lucid and logical presentation of concepts, for easy and quick understanding.
- Close to 450 solved examples for better understanding of almost every Article or topic is included.
- Close to 800 practice exercise questions from various University examination papers are also compiled.
- A comprehensive Index is also provided to search and locate a required topic.

**ISBN: 9789358707120 | Price: ₹ 450 | Pages: 432 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**Unit I: Differentiability**
1. Differentiability of a Function
2. Chain Rule of Differentiation
3. Mean Value Theorems
4. Successive Differentiation: Leibniz's Theorem

Unit II: Expansion of Functions
5. Maclaurin and Taylor's Theorems
6. Maxima and Minima

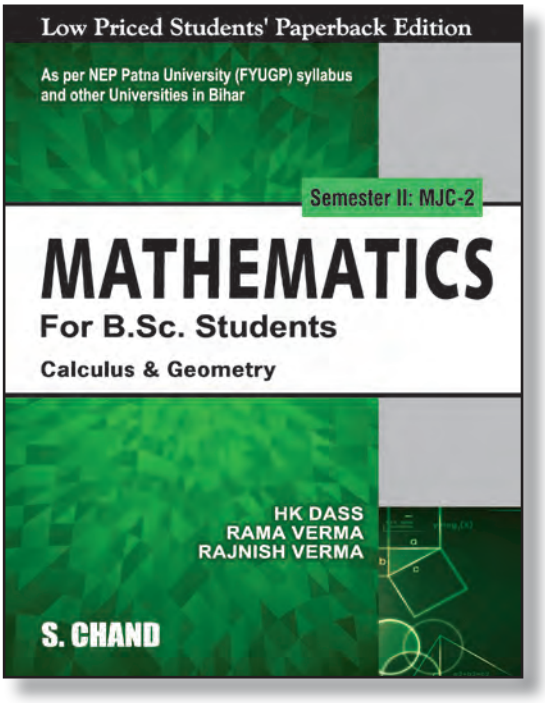
Unit III: Curvature, Asymptotes and Curve Tracing
7. Curvature
8. Asymptotes
9. Concavity, Convexity and Point of Inflexion
10. Tracing of Curves

Unit IV: Integral Calculus
11. Integration of Rational and Irrational Functions
12. Evaluation of Definite and Special Integrals
13. Differentiation and Integration Under Sign of Integration
14. Reduction Formulae

Unit V: Geometry of Integral Calculus
15. Length and Area Bounded by Plane Curves
16. Volume and Surface Area of Solid of Revolution

Unit VI: Planes, Straight Lines and Spheres
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Questions from Latest Examinations
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Index




# Mathematics for B.Sc. Students: Calculus & Geometry, Semester II, MJ-2 (NEP 2020 Patna)

H K Dass, Rama Verma and Rajnish Verma

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Mathematics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar. The book comprehensively covers important topics such as Successive Differentiation and Leibnitz Theorem, Maclaurin and Taylor Series, Euler's Theorem, L'Hôpital's Rule, Curvature, Asymptotes, Integration of Rational and Irrational Functions, Length and Area Bounded by Plane Curves, Beta and Gamma Functions, General Equation of Conics and Reduction to Normal Form, Tangent and Normal of Conics, SphWere, Cone, Cylinder, Conicoid, Paraboloids, Scalar and Vector Triple Product, Differentiation and Integration of Vector Functions, Gradient of Scalar, Divergence and Curl etc. are explained thoroughly and followed by numerous examples and practice exercises. Questions from Universities Latest Examination papers are included at the end for smart revision and practice.

## Key Features

- Very lucid and logical presentation of concepts, for easy and quick understanding.
- More than 350 solved examples for better understanding of almost every topic are included.
- More than 1200 practice exercise questions from various University examination papers are also compiled.

**ISBN: 9789358708714 | Price: ₹ 450 | Pages: 400 | Size: 6.5" X 9.25" (Paperback)**

## Contents

**UNIT I: PARTIAL DERIVATIVES**
1. Functions of Several Variables
2. Partial Differentiation and Chain Rule
3. Higher Order Partial Derivatives
4. Total Differential and Differentiability
5. Jacobians
6. Change of Variables
7. Euler's Theorem for Homogeneous Functions
8. Envelope and Evolutes
9. Maxima and Minima of a Function of Two Variables
10. Lagrange Multipliers

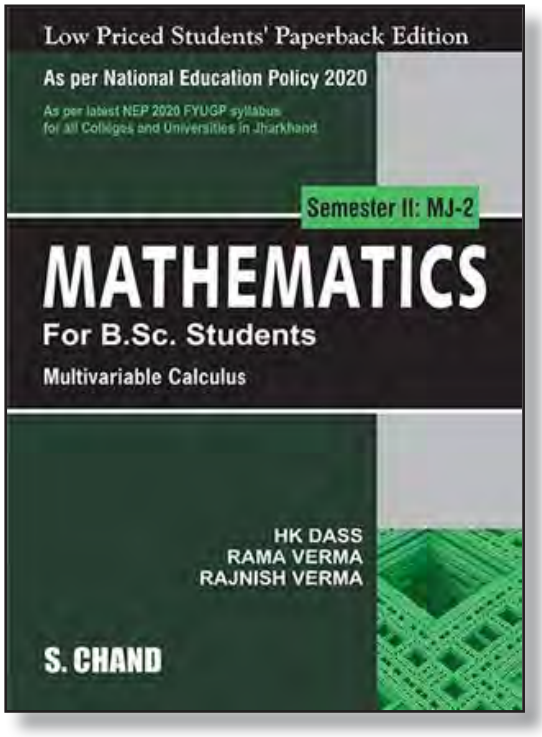
**UNIT II: DOUBLE AND TRIPLE INTEGRATION**
11. Double Integration Over Rectangular and Non-Rectangular Regions
12. Double Integrals in Polar Coordinates
13. Applications of Integrals (Surface Area)
14. Triple Integrals
15. Triple Integration in Cylindrical and Spherical Coordinates
16. Volume by Triple Integrals
17. Change of Variables in Double and Triple Integrals

**UNIT III: VECTOR FIELD**
18. Vector, Scalar Point Functions and Gradient
19. Differentiation of Vector Function
20. Divergence, Vector Identities and Curl

**UNIT IV: GREEN'S, STOKES' AND GAUSS DIVERGENCE THEOREM**
21. Line Integrals and Applications
22. Green's, Stoke's and Gauss Divergence Theorems

Chapter Wise Practice Questions from Latest Examination

(NEP 2020 for the University of Patna)




# Mathematics For B.Sc. Students Semester II: MJ-2 | Multivariable Calculus - NEP 2020 Jharkhand

H K Dass, Rajnish Verma & Dr. Rama Verma

## About the Book

This textbook has been designed to meet the needs of B.Sc. Second Semester students of Mathematics as per Common Minimum Syllabus prescribed for Ranchi University and other Universities and Colleges under the recommended National Education Policy 2020 in Jharkhand. The book comprehensively covers important topics such as Functions of Several Variables, Partial Differentiation and Chain Rule, Higher Order Partial Derivatives, Total Differential and Differentiability, Jacobians, Change of Variables, Euler's Theorem for Homogeneous Functions Lagrange Multipliers, Double Integrals in Polar Coordinates, Triple Integration in Cylindrical and Spherical Coordinates, Change of Variables in Double and Triple Integrals, Vector, Scalar Point Functions and Gradient, Divergence, Vector Identities and Curl, Green's, Stoke's and Gauss Divergence Theorems, etc. are explained thoroughly and followed by numerous examples and practice exercises. Questions from Universities Latest Examination papers are included at the end for smart revision and practice.

## Key Features

- Very lucid and logical presentation of concepts, for easy and quick understanding.
- Close to 400 solved examples for better understanding of almost every topic is included.
- Close to 550 practice exercise questions from various University examination papers are also compiled.

**ISBN: 9789355018359 | Price: ₹ 450 | Pages: 400 | Size: 6.5" X 9.25" (Paperback)**

## Contents

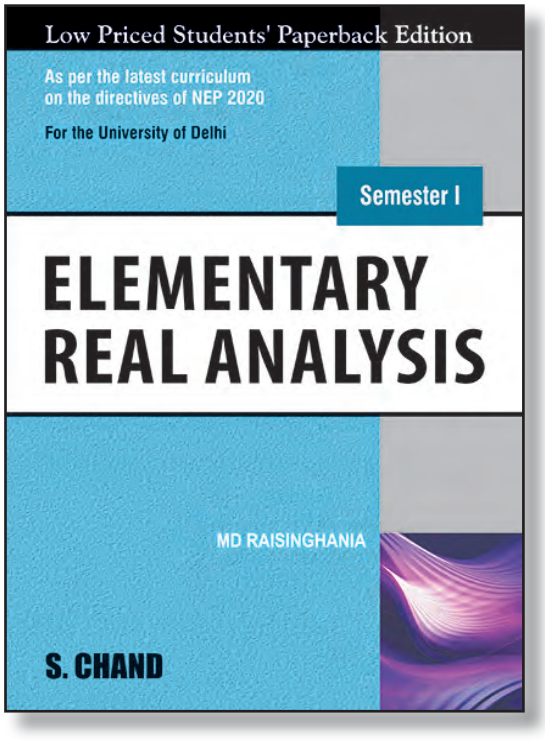
**UNIT I: PARTIAL DERIVATIVES**
1. Functions of Several Variables
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3. Higher Order Partial Derivatives
4. Total Differential and Differentiability
5. Jacobians
6. Change of Variables
7. Euler's Theorem for Homogeneous Functions
8. Envelope and Evolutes
9. Maxima and Minima of a Function of Two Variables
10. Lagrange Multipliers

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19. Differentiation of Vector Function
20. Divergence, Vector Identities and Curl

**UNIT IV: GREEN'S, STOKES' AND GAUSS DIVERGENCE THEOREM**
21. Line Integrals and Applications
22. Green's, Stoke's and Gauss Divergence Theorems

Chapter Wise Practice Questions from Latest Examination




# Elementary Real Analysis, Semester I: NEP-2022 for the University of Delhi

Dr. M.D. Raisinghania

## About the Book

Elementary Real Analysis is systematically written and it acquaints the students with the basic concepts and techniques. It covers thoroughly important topics such as Sets and Functions, The Real Numbers, Sequences, Infinite Series with Positive Terms, Infinite Series with Positive and Negative Terms. This textbook explains the subject in the most student-friendly manner and provides a foundation of the subject so that based on these, students can extrapolate, predict and solve challenging problems.

## Key Features

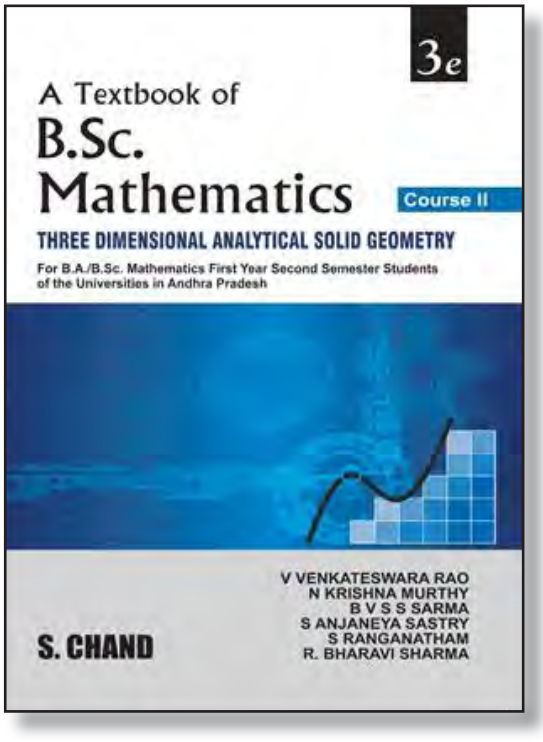
- Provides a detailed step-by-step approach to problem solving
- Over 200 examples for thorough understanding of the concepts
- Close to 200 exercise questions strengthen the well-explained theoretical concepts

**ISBN: 9789355016225 | Price: ₹ 295 | Pages: 240 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Sets and Functions
2. The Real Numbers
3. Sequences
4. Infinite Series with Positive Terms
5. Infinite Series with Positive and Negative Terms

**Dr. M.D. Raisinghania** Former Reader and Head of the Mathematics Department, S.D. College, Muzaffarnagar. He obtained his Ph.D. in Mathematics on the thesis entitled "An Analytical Study of Some Non-Newtonian Fluid Flow Problems". He has 38 years of teaching experience. Dr. Raisinghania has published several research papers in the area of Fluid Mechanics in reputed journals.




# A Textbook of B.Sc. Mathematics Course II | Three Dimensional Analytical Solid Geometry: For Andhra Pradesh Universities

V. Venkateswara Rao, R Bharavi Sharma, B.V.S.S. Sarma, N. Krishnamurthy, S. Anjaneya Sastry & S. Ranganatham

## About the Book

This book has been written strictly according to new curriculum for First Year: Second Semester students at all Universities of Andhra Pradesh. It covers Equation of Plane in Terms of Its Intercepts on the Axis, Combined equation of Two Planes, Orthogonal Projection on a Plane, Equation of a line, Angle between a Line and a Plane, The condition that Two Given Lines are Coplanar, Length of the Perpendicular from a Given Point to a Given Line, Definition and Equation of the Sphere, Equation of a Circle, Power of a point, Plane of Contact, Polar Plane, Pole of a Plane, Angle of Intersection of Two Spheres, Coaxial system of spheres, Definitions of a Cone, Vertex, Guiding Curve, Generators, Enveloping Cone of a Sphere, Tangent Lines and Tangent Plane at a Point, Intersection of Two Cones with a Common Vertex etc. The book will guide the students in a proper way and inspire them to sure and brilliant success.

## Key Features

- The book has been written in simple and lucid language.
- Detailed solutions for all problems in the various exercises of different chapters are given at the end.
- Quiz, Problems for Problem Solving Session and Three-dimensional Analytical Solid Geometry and its Applications are also included to make the book more comprehensive.

**ISBN: 9789355017277 | Price: ₹ 305 | Pages: 352 | Size: 6.5" X 9.25" (Paperback)**

## Contents

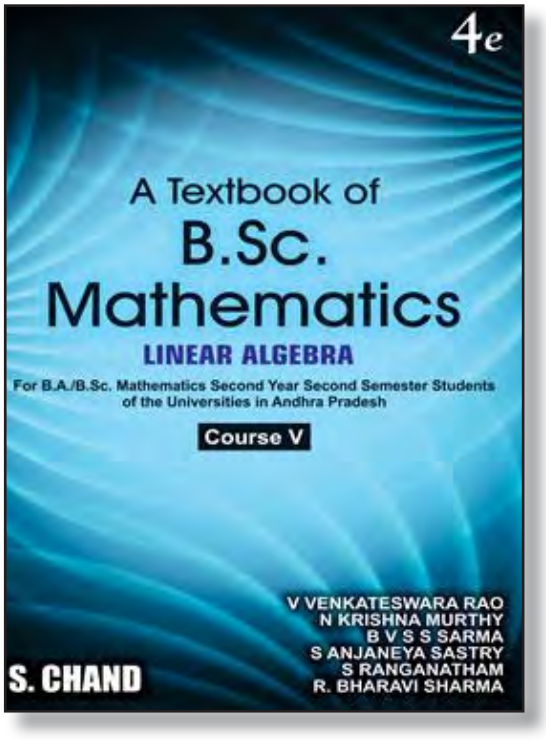
**UNIT I**
1. Introduction
2. Coordinates
3. The Plane

**UNIT - II**
4. Right Line

**UNIT - III**
5. The Sphere

**UNIT - IV**
6. The Sphere (Contd.)
7. The Cone

**UNIT - V: Bessel's Functions**
8. The Cone (Contd.)




## A Textbook of B.Sc. Mathematics: Semester IV (Linear Algebra) : For Universities in Andhra Pradesh

V. Venkateswara Rao, R Bharavi Sharma, B.V.S.S. Sarma, N. Krishnamurthy, S. Anjaneya Sastry & S. Ranganatham

### About the Book

This book has been written strictly according to new curriculum for Second Year: Second Semester students at all Universities of Andhra Pradesh. It covers important topics such as Vector Spaces, Basis and Dimension, Linear Transformation, Fundamentals of Matrices, Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem, Inner Product Spaces, and Orthogonality. The book will guide the students in a proper way and inspire them to sure and brilliant success. The authors are very happy that the earlier editions have been very well used by the students.

### Key Features

- The book has been written in simple and lucid language.
- Quiz, Questions for Problem Solving Session, Applications of Linear Algebra" are included to make the book more comprehensive.
- Detailed solutions for all problems in the various exercises of different chapters are given at the end.
- Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)" of 60 pages are also included at the end of the book.

**ISBN: 9789355017253 | Price: ₹ 275 | Pages: 312 | Size: 6.5" X 9.25" (Paperback)**

### Contents

**UNIT I**
1. Vector Spaces

**UNIT - II**
2. Basis and Dimension

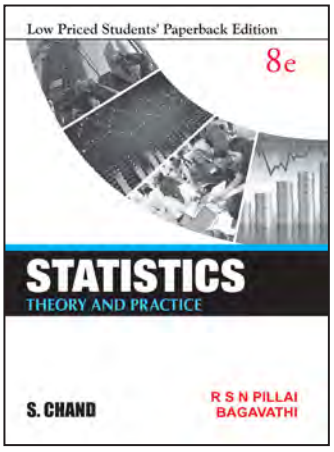
**UNIT - III**
3. Linear Transformation

**UNIT - IV**
4. Fundamentals of Matrices
5. Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem

**UNIT - V**
6. Inner Product Spaces,
7. Orthogonality

**Co-Curricular Activities**
Quiz (Objective Type Questions)
Questions for "Problems Solving Session"
Applications of Linear Algebra
Model Question Paper & Previous Question Papers
Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)"

(NEP 2020 Andhra Pradesh Universities)




## Statistics, 8e (LPSPE)

R S N Pillai & Bagavathi

### About the Book

A comprehensive and easy to understand text, this book discusses fundamental theoretical concepts with emphasis on practical applicability. The book begins with the explanation of statistical fundamentals and progresses to discussion of representation and presentation techniques, measures of central tendency, dispersion, skewness, correlation, regression, and index numbers. It further initiates the study of index numbers and analysis of time series, interpolation and extrapolation, association of attributes, probability, theoretical distribution, sampling theory and chi square and concludes with logarithm and its uses. The book has ample illustrations with solutions to help students understand the topics discussed and gain a solid foundation in statistics. The book is an ideal choice for undergraduate and postgraduate students of statistics, and also caters to the needs of students of varied disciplines.

### Key Features

- A perfect balance of theory and practice with abundant diagrams and tables to reinforce understanding
- Over 550 solved illustrations interspersed throughout the text
- More than 400 objective type questions with answers; 300 theoretical questions and 1000+ practical problems with detailed answers

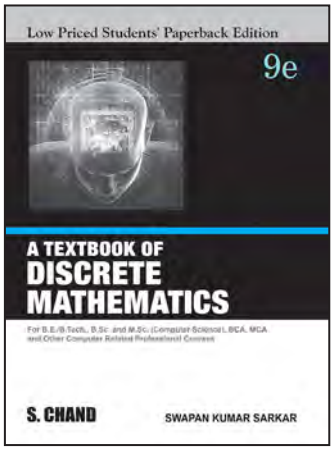
**ISBN: 9789352837267 | Price: ₹ 595 | Pages: 888 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction, 2. Importance, Functions and Limitations, 3. Statistical Survey, 4. Collection of Data, 5. Sampling Design, 6. Classification and Tabulation, 7. Diagrammatic Representation, 8. Graphic Presentation, 9. Measures of Central Tendency (Averages), 10. Dispersion, 11. Skewness, Kurtosis, Moments, 12. Correlation, 13. Regression, 14. Index Numbers, 15. Analysis of Time Series, 16. Interpolation and Extrapolation, 17. Association of Attributes, 18. Probability, 19. Theoretical Distribution, 20. Sampling Theory and Test of Significance, 21. CHI Square Test, 22. Logarithm and their Uses

**R S N Pillai,** Formerly Professor & Head of the Department (Commerce), Anna College, Aramboly (Kanyakumari).

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## A Textbook of Discrete Mathematics, 9e (LPSPE)

Swapan Kumar Sarkar

### About the Book

*A Textbook of Discrete Mathematics* provides an introduction to fundamental concepts in Discrete Mathematics, the study of mathematical structures which are fundamentally discrete, rather than continuous. It explains how concepts of discrete mathematics are important and useful in branches of computer science, such as, computer algorithms, programming languages, automated theorem proving and software development, to name a few. Written in a simple and lucid style, it has a balanced mix of theory and application to illustrate the implication of theory. It is designed for the students of graduate and postgraduate courses in computer science and computer engineering. The students pursuing IT related professional courses may also be benefitted.

### Key Features

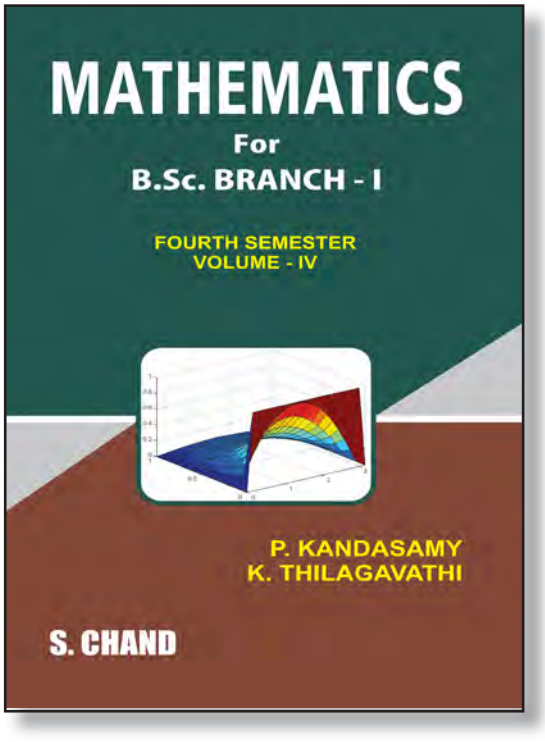
- Nearly 1000 solved examples throughout the book to facilitate understanding of concepts
- More than 250 figures and 60 tables help explain the concepts lucidly and illustrate the implications of theory
- More than 1000 practice set questions with answers presenting a mixture of straight forward application to ideas of chapter to challenging problems and nearly 500 multiple choice questions with answers at the end of each chapter to test the reader's understanding and grasp over the topic

**ISBN: 9789352837359 | Price: ₹ 550 | Pages: 1,024 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. A Brief Survey of Discrete Mathematics, 2. Mathematical Logic, 3. Boolean Algebra and Logic Circuits, 4. Set Theory, 5. Matrices, 6. Number Theory, 7. Relation, 8. Function, 9. Posets and Lattices, 10. Combinatorics, 11. Recurrence Relation and Generating Function, 12. Group Theory, 13. Rings and Fields, 14. Graph Theory – I, 15. Graph Theory – II, 16. Trees, 17. Language, Grammar and Automata, 18. Time Complexity of Algorithm, 19. Vector Spaces, 20. Elements of Coding Theory • *References* • *Index*

**Swapan Kumar Sarkar,** Professor and Head of Department - MCA, Meghnad Saha Institute of Technology, Kolkata.




# Mathematics for B. Sc. Branch – I: Fourth Semester Volume-IV

P. Kandasamy & Dr. K. Thilagavathi

## About the Book

" Mathematics for B. Sc. Branch - I Vol IV " is written to meet the requirements of undergraduate students of mathematics and cover Differentiation of Vectors, Gradient, Divergence and Curl, Integration of Vectors, Fourier Series and its Applications, Fourier Series and Fourier Transforms. Undergraduate students will find this book to be an ideal choice as it is written in a systematic and lucid manner.

## Key Features

- Close to 200 examples aid in ease of understanding of the concepts.
- More than 300 questions (as in-text and book-end exercises) to enhance and strengthen the learning quotient.

**ISBN: 9788121924733 | Price: ₹ 250 | Pages: 268 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Unit - 1 Vector Calculus
1. Differentiation of Vectors
2. Gradient, Divergence and Curl
3. Integration of Vectors

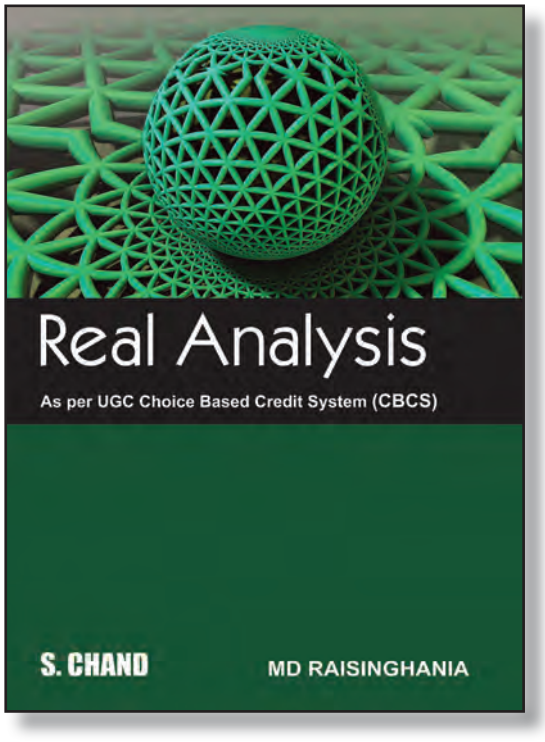
Unit - 2 Fourier Series and its Applications
1. Fourier Series
2. Fourier Transforms

**P. Kandasamy:** M.A., Ph.D., Former Professor of Mathematics, P.S.G. College of Technology Coimbatore & Visiting Professor, Amrita Institute of Technology Deemed University, Coimbatore

**K. Thilagavathi: M.Sc., M.Phil, Ph.D., Reader in Mathematics, Kongunadu Arts and Science College, Coimbatore**

LOW PRICED STUDENTS' PAPERBACK EDITION

LOW PRICED STUDENTS' PAPERBACK EDITION




# Real Analysis (As per UGC & CBCS)

Dr. M.D. Raisinghania

## About the Book

This textbook has been designed as per the UGC Choice Based Credit System (CBCS) curriculum to meet the requirements of undergraduate students of mathematics. Systematically written, it acquaints the students with the basic concepts and techniques of real analysis. Important topics such as sets & functions, sequences, infinite series, fundamental properties of limits of functions, uniqueness of limit, continuous functions, basic theory of derivatives & its applications have been thoroughly explained.

## Key Features

- Provides a detailed step-by-step approach to problem solving
- Over 200+ examples for thorough understanding of the concepts
- More than 400 unsolved problems for effective practice
- Additional Roadmap for the syllabuses of Odisha State, Calcutta, Gauhati, Dibrugarh and Burdwan universities

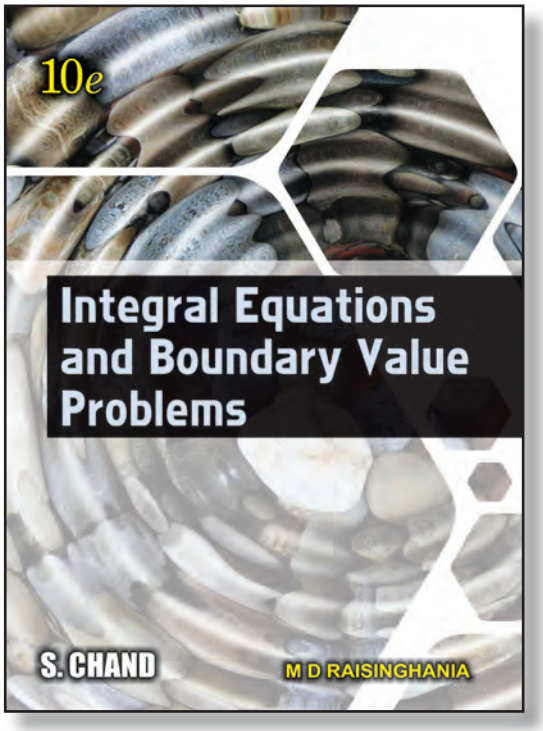
**ISBN: 9789355014108 | Price: ₹ 350 | Pages: 320 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1: Sets and Functions
2: The Real Numbers
3: Neighbourhoods and Limit Points of a Set Open and Closed Sets
4: Countability of Sets
5: Sequences
6: Infinite Series with Positive Terms
7: Infinite Series with Positive and Negative Terms
8: Limits of Functions
9: Continuous Functions
10: The Derivatives
11: Mean Value Theorems
• Index

Dr. M.D. Raisinghania

Former Reader and Head of the Mathematics Department, S.D. College, Muzaffarnagar. He obtained his Ph.D. in Mathematics on the thesis entitled "An Analytical Study of Some Non-Newtonian Fluid Flow Problems". He has 38 years of teaching experience. Dr. Raisinghania has published several research papers in the area of Fluid Mechanics in reputed journals.




# Integral Equations and Boundary Value Problems, 10e

M D Raisinghania

## About the Book

The tenth edition of Integral Equations and Boundary Value Problems continues to offer an in-depth presentation of integral equations for the solution of boundary value problems. The book provides a plethora of examples and step-by-step presentation of definitions, proofs of the standard results and theorems which enhance students' problem-solving skills. Solved examples and numerous problems with hints and answers have been carefully chosen, classified in various types and methods, and presented to illustrate the concepts discussed. With the author's vast experience of teaching mathematics, his approach of providing a one-stop solution to the students' problems is engaging which goes a long way for the reader to retain the knowledge gained. This book has been specifically designed for postgraduate students of Mathematics and Physics. It would also be equally useful for undergraduate students of applied mathematics as well as for the aspirants of GATE, CSIR-UGC (NET/JRF), SLET and other competitive examinations.

## Key Features

- Thorough revision of chapters on Integral Transform Methods, Applications of Integral Equations and Green's Function to Ordinary Differential Equations and Applications of Integral Equations to Partial Differential Equations as per the latest curriculum requirements
- Latest questions from various universities, GATE (2006-2020) and CSIR-UGC NET (2011-2019)
- Enhanced pedagogy comprising:
  * a set of "Additional results and problems" at the end of each chapter
  * a list of useful results of integration for direct applications along with contents and notations
- Inclusion of two new appendices:
  * Appendix C: Beta and Gamma functions * Appendix D: Cramer's rule for solving a system of Two Linear Algebraic Equations in Two Variables

**ISBN: 9789352838950 | Price: ₹ 495 | Pages: 600 | Size: 6.5" X 9.25" (Paperback)**

## Contents

1. Preliminary Concepts
2. Conversion of Ordinary Differential Equations into Integral Equations
3. Homogeneous Fredholm Integral Equations of the Second Kind with Separable or Degenerate Kernels
4. Fredholm Integral Equations of the Second Kind with Separable (or Degenerate) Kernels
5. Method of Successive Approximations
6. Classical Fredholm Theory
7. Integral Equations with Symmetric Kernels
8. Singular Integral Equations
9. Integral Transform Methods
10. Self Adjoint Operator, Dirac Delta Function and Spherical Harmonics
11. Applications of Integral Equations and Green's Function to Ordinary Differential Equations
12. Applications of Integral Equations to Partial Differential Equations
13. Applications of Integral Equations to Mixed Boundary Value Problems
14. Integral Equation Perturbation Techniques

Appendix A: Boundary Value Problems and Green's Identities

Appendix B: Two and Three Dimensional Dirac Delta Functions

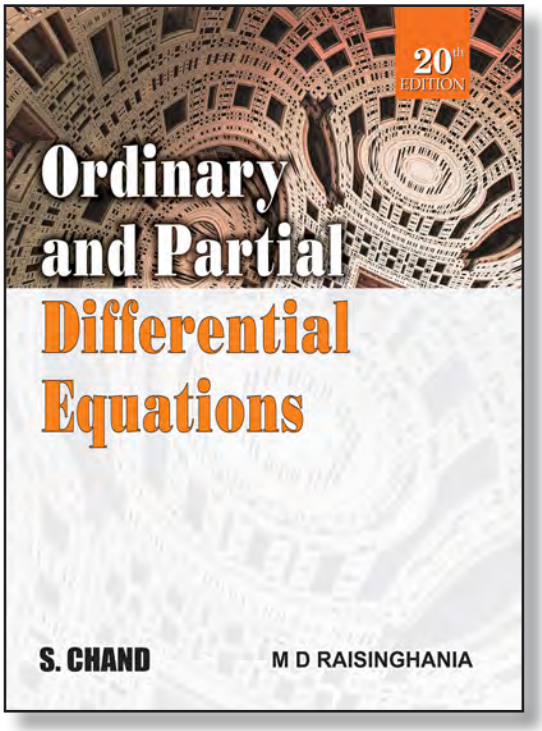
Appendix C: Beta and Gamma Functions

Appendix D: Cramer's Rule for Solving a System of Two Linear Algebraic Equations in Two Variables

* Index

**M D Raisinghania,** M.Sc.; Ph.D., is formerly Reader and Head of the Mathematics Department at S.D. (Postgraduate) College, Muzaffarnagar. He obtained his Ph.D. in Mathematics on the thesis entitled "An Analytical Study of Some Non-Newtonian Fluid Flow Problems". He has a rich experience of 38 years in teaching Mathematics to both undergraduate and postgraduate students.

A prolific author, Dr. Raisinghania has to his credit several books—Fluid Dynamics, Elements of Real Analysis, Dynamics, Ordinary and Partial Differential Equations, Advanced Differential Equations and Elements of Real Analysis in addition to this book. He has also published a number of research papers on Fluid Mechanics in reputed journals and his main research interest includes Fluid Mechanics.




# Ordinary and Partial Differential Equations, 20e

M D Raisinghania

## About the Book

This well-acclaimed book, now in its twentieth edition, continues to offer an in-depth presentation of the fundamental concepts and their applications of ordinary and partial differential equations providing systematic solution techniques. The book provides step-by-step proofs of theorems to enhance students' problem-solving skill and includes plenty of carefully chosen solved examples to illustrate the concepts discussed.

Designed as a textbook for undergraduate and postgraduate students of Mathematics and Physics as well as undergraduate students of all branches of Engineering and AMIE, this book would also be useful for the aspirants of GATE, CSIR-UGC (NET) and other competitive examinations.

## Key Features

- A new chapter on "Miscellaneous Methods and Existence and Uniqueness Theorem for Solutions of First Order Initial Value Problems"
- Clear exposition of Picard's theorem and Picard's iterative method of successive approximations l Detailed discussion on Lipschitz condition, Lipschitz constant, Lipschitz continuous function, Gronwall inequality and existence and uniqueness of solutions to first order initial value problems
- For practice a number of exercises including questions asked in different university examinations, GATE, CSIR-UGC (NET) and other competitive examinations

**ISBN: 9789352836109 | Price: ₹ 895 | Pages: 912 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Part I: Elementary Differential Equations

1. Differential Equations: Their Formation and Solutions
2. Equations of First Order and First Degree
3. Trajectories
4. Equations of the First Order but Not of the First Degree and Singular Solutions and Extraneous Loci
5. Linear Differential Equations with Constant Coefficients
6. Homogeneous Linear Equations or Cauchy-Euler Equations
7. Method of Variation of Parameters
8. Ordinary Simultaneous Differential Equations
9. Exact Differential Equations and Equations of Special Forms
10. Linear Equations of Second Order
11. Applications of Differential Equations
12. Miscellaneous Methods and Existence and Uniqueness Theorem for Solutions of First Order Initial Value Problems

Miscellaneous problems based on Part I of the book

Part II: Advanced Ordinary Differential Equations, Fourier Series And Special Functions

1. Picard's Iterative Method, Picard's Theorem and Existence and Uniqueness of Solutions to First Order Initial Value Problems
2. Simultaneous Equations of the Form (dx)/IP = (dy)/IQ = (dz)/IR
3. Total (or Pfaffian) Differential Equations
4. Beta and Gamma Functions
5. Chebyshev Polynomials
6. Fourier Series
7. Power Series
8. Integration in Series
9. Legendre Polynomials
10. Legendre Functions of the Second Kind—Qn(x)
11. Bessel Functions
12. Orthogonal Sets of Functions and Strum Liouville Problem

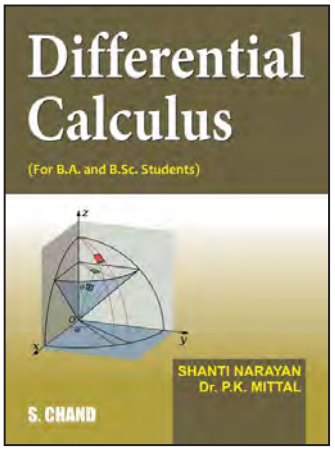
Miscellaneous problems based on Part II of the book

Part III: Partial Differential Equations

1. Origin of Partial Differential Equations
2. Linear Partial Differential Equations of Order One
3. Non–linear Partial Differential Equations of Order One
4. Homogeneous Linear Partial Differential Equations with Constant Coefficients
5. Non–homogeneous Linear Partial Differential Equations with Constant Coefficients
6. Partial Differential Equations Reducible to Equations with Constant Coefficients
7. Partial Differential Equations of Order Two with Variable Coefficients
8. Classification of P.D.E. Reduction to Canonical or Normal Forms Riemann Method
9. Monge's Methods
10. Transport Equation
11. Cauchy Initial Value Problem for Linear First Order Partial Differential Equations

Miscellaneous problems based on Part III of the book

**M D Raisinghania,** M.Sc.; Ph.D., is formerly Reader and Head of the Mathematics Department at S.D. (Postgraduate) College, Muzaffarnagar. He obtained his Ph.D. in Mathematics on the thesis entitled "An Analytical Study of Some Non-Newtonian Fluid Flow Problems". He has a rich experience of 38 years in teaching Mathematics to both undergraduate and postgraduate students.




## Differential Calculus

Shanti Narayan & P K Mittal

### About the Book

This textbook commences with a brief outline of development of real numbers, their expression as infinite decimals and their representation by points along a line. While the first part of the textbook is analytical, the latter part deals with the geometrical applications of the subject. Numerous examples and exercises have been provided to support student's understanding. This textbook has been designed to meet the requirements of undergraduate students of BA and BSc courses.

### Key Features

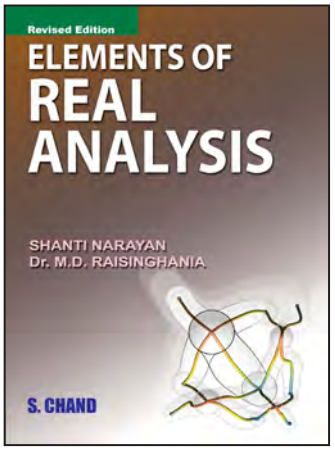
- Analytical geometrical interpretation of results has been provided
- Principles and methods profusely illustrated with the help of numerous solved examples
- A chapter on Some Important Curves which acquaints the students with different kinds of curves helping them understand their properties

**ISBN: 9788121904711 | Code: 1014B00049 | Price: ₹ 625 | Pages: 584 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Real Numbers, 2. Functions and Graphs–Elementary Functions, 3. Continuity and Limit, 4. Differentiation, 5. Successive Differentiation, 6. Expansion of Functions, 7. Tangents and Normals, 8. Mean Value Theorems, 9. Maxima and Minima, 10. Indeterminate Forms, 11. Partial Differentiation, 12. Jacobians,13. Concavity and Points of Inflexion, 14. Curvature and Evolutes, 15. Asymptotes, 16. Singular Points, 17. Curve Tracing, 18. Envelopes, 19. Change of Independent Variables

**Shanti Narayan,** Formerly Dean of Colleges, Principal, Hans Raj College, University of Delhi.




## Elements of Real Analysis

Shanti Narayan & M D Raisinghania

### About the Book

This classic book is a part of bestseller series in mathematics by eminent mathematician, Shanti Narayan. This thoroughly revised edition facilitates students to understand Elements of Real Analysis and provides stimulus for the commencement of the study of Analysis. This book caters to B.A., B.Sc.- Pass and Honours (Mathematics and Physics), M.A. and M.Sc. (Mathematics) students of various universities. It is also useful for GATE, CSIR-UGC(NET) and other competitive examinations.

### Key Features

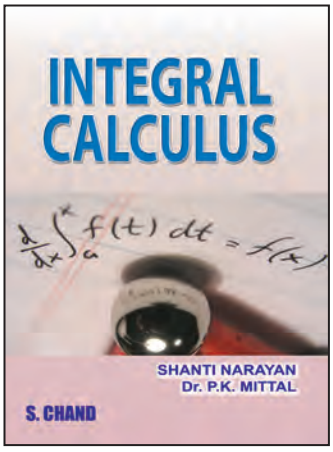
- Chapter on Fourier Series rewritten in the revised edition with new useful results
- New chapters on Countability of Sets, The riemann-Stieltjes Integrals, Uniform Convergence of Sequences and Series of Functions, Improper Integrals and Metric Spaces
- Illustrative solved examples and exercises to get a firm grip on the subject and enhance understanding

**ISBN: 9788121903066 | Code: 1014G00052 | Price: ₹ 625 | Pages: 888 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Sets and Functions, 2. The Real Numbers, 3. Neighbourhoods and Limit Points of a Set: Open and Closed Sets, 4. Countability of Sets, 5. Sequences, 6. Infinite Series with Positive Terms, 7. Infinite Series with Positive and Negative Terms, 8. Real Functions: Limit and Continuity, 9. Real Functions: The Derivative, 10. Mean Value Theorems, 11. Maxima and Minima, 12. Indeterminate Forms, 13. Riemann Integrability, 14. The Riemann Stieltjes Integral, 15. Uniform Convergence of Sequences and Series of Functions, 16. Improper Integrals, 17. Power Series, 18. Double Sequences and Series, 19. Metric Spaces, 20. Beta and Gamma Functions, 21. Differentiation under the Integral Sign, 22. Fourier Series • *Appendix: A.1: Some useful Theorems, A.2: Uniform Convergence and Continuity, A.3: Dini's Theorems on Uniform Convergence, A.4: Uniform Convergence and Integration, A.5: Uniform Convergence and Integration (particular cases of Theorems 1 and 2 discussed in Art. A.4), A.6: Uniform Convergence and Differentiation, A.7: Miscellaneous Problems on Chapter 15 • Miscellaneous Results and Problems based on the Entire Book • Index*

**Shanti Narayan,** Formerly Dean of Colleges, Principal, Hans Raj College, University of Delhi.
**M D Raisinghania,** Formerly Reader and Head of Department - Mathematics, S D College, Muzaffarnagar.




## Integral Calculus

Shanti Narayan & P K Mittal

### About the Book

This classic book is a part of bestseller series in mathematics by eminent mathematician, Shanti Narayan. It is an exhaustive foundation text on Integral Calculus and primarily caters to the undergraduate courses of BSc. and BA.

### Key Features

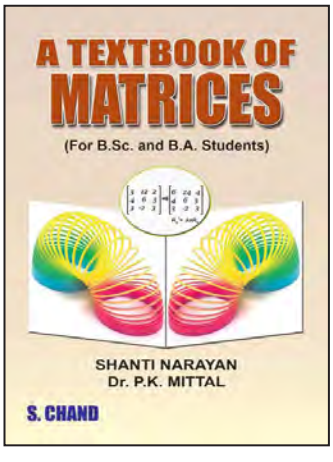
- New chapters on Beta and Gamma Functions, Convergence of Improper Integrals, Differentiation under Integral Sign and Multiple Integrals.
- Numerous solved examples to facilitate easy reminiscence.

**ISBN: 9788121906814 | Code: 1014B00050 | Price: ₹ 550 | Pages: 608 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Definitions, 2. Methods of Integration, 3. Integration of Algebraic Rational Functions, 4. Integration of Trigonometric Functions, 5. Integration of Irrational Functions, 6. Definite Integrals, 7. Beta and Gamma Functions, 8. Areas of Plane Regions, 9. Rectification Lengths of Plane Curves, 10. Volumes and Surfaces of Revolution, 11. Centre of Gravity. Moment of Inertia, Some Miscellaneous Topics: 12. Multiple Integrals, 13. Convergence of Improper Integrals, 14. Differentiation Under Integral Sign, Differential Equations: 15. Differential Equations of First Order and First Degree, 16. Equations of the First Order but not of the First Degree, 17. Trajectories of a Family of Curve, 18. Linear Equation

**Shanti Narayan,** Formerly Dean of Colleges, Principal, Hans Raj College, University of Delhi.
**P K Mittal,** Formerly Head of Department - Mathematics, Government Post Graduate College, Rishikesh.




## A Textbook of Matrices

Shanti Narayan & P K Mittal

### About the Book

The revised edition of the book fills in the urgent need of a treatise on the fundamental laws of operation with numbers so that the readers can understand points of similarity and difference between the Algebra of Matrices and of numbers. The subject is equally important to mathematical disciplines such as Geometry and Modern Algebra and to sciences. The book provides a well rounded and complete account of important concepts of Group, Ring, Field Isomorphism, Equivalence, Congruence and reduction of real quadratic and Hermitian forms to canonical form. Elementary treatment of Vector spaces and linear independence and dependence of vector systems helps in discussing Ranks of matrices and in formulation of results of a system of equations and characteristic vector of a matrix. Illustration of every idea and theorem with abundant solved examples and lucid language are the unique features of this legendary textbook. It is a must read for Mathematics and Science students of undergraduate programmes. Aspirants trying for competitive examinations will also find the book equally useful.

### Key Features

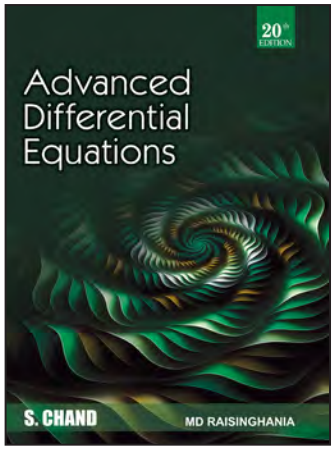
- Strong pedagogy comprising beneficial chapter end features to enhance learning of the students - summary, Nearly 100 Exercises, more than 300 objective type questions at chapter end
- Nearly 200 solved examples and more than 350 exercises within the chapters to illustrate concepts and test the topical understanding of students, respectively

**ISBN: 9788121925969 | Code: 1014A00509 | Price: ₹ 350 | Pages: 320 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Fundamental Concepts, 2. Algebra of Matrices, 3. Determinants, 4. Rank of a Matrix, 5. Vector Spaces of n-Tuples and Their Linear Transformations, 6. Systems of Linear Equations, 7. Quadratic Forms and Congruence of Matrices, 8. Quadratic Forms in the real field, 9. Hermitian Matrices and Forms, 10. Orthogonal Matrices: Unitary Matrices, 11. Characteristic Roots and Characteristic Vectors of a Matrix, 12. Orthogonal and Unitary Reductions of Quadratic Forms, 13. Similarity of Matrices • *Appendices: I. Application to Geometry. Classification of Quadrics, II. Application to Graph Theory*

**Shanti Narayan,** Formerly Dean of Colleges, Principal, Hans Raj College, Delhi.
**P K Mittal,** Formerly Head of Department - Mathematics, Government Post Graduate College, Rishikesh.




# Advanced Differential Equations, 19e

M D Raisinghania

## About the Book

This book is especially written for the students of B.A. (Mathematics), B.Sc., (Mathematics & Physics), M.A. (Mathematics), M.Sc. (Mathematics & Physics) and B.E./B.Tech. Besides, it will also be of immense value to the aspirants of AMIE,GATE, CSIR- UGC (NET) and other competitive examinations. A set of objective problems (including questions asked in the examinations of various universities, GATE, NET, etc.) has been provided at the end of each chapter. Also, several new solved examples have been added so that the reader may gain confidence in the techniques of solving problems.

## Key Features

- Total 43 chapters are divided in 5 parts to make to reading easy from one topic to another
- More than 1100 examples aid in ease of understanding of the concepts
- More than 500 questions (as in-text and book-end exercises) to enhance and strengthen learning quotient
- It will also be found useful by the students preparing for various competitive examinations

**ISBN: 9789355014672 | Price: ₹ 895 | Pages: 1,088 | Size: 6.5" X 9.25" (Paperback)**

## Contents

Part I: Advanced Ordinary Differential Equations and Special Functions, 1. Miscellaneous Methods and Existence and Uniqueness Theorem for Solutions of First Order Initial Value Problems, 2. Picard's Iterative Method, Picard's Theorem and Existence And Uniqueness Of Solutions To First Order Initial Value Problems, 3. Beta and Gamma Functions, 4. Integration in Series, 5. Legendre Polynomials 6. Bessel Functions, 7. Hermite Polynomials, 8. Laguerre Polynomials, 9. Hypergeometric Function 10. The Error Function, Heaviside Unit Function or Unit Step Function) And Dirac Delta Function (Or Unit Impulse Function), 11. Systems of Linear Ordinary Differential Equations, 12. Orthogonal Sets of Functions and Strum Liouville Problem, 13. Simultaneous Equations of The Form (Dx)/P = (Dy)/Q = (Dz)/R, 14. Total Differential Equations, 15. Green's Function and Its Applications to Boundary Value Problems

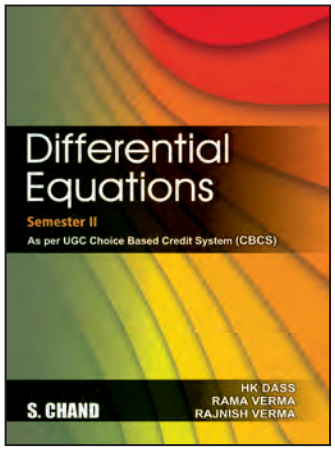
Part II: Partial Differential Equations 1. Origin of Partial Differential Equations, 2. Linear Partial Differential Equations of Order One , 3. Non-Linear Partial Differential Equations of Order One, 4. Homogeneous Linear Partial Differential Equations with Constant Coefficients, 5. Non-Homogeneous Linear Partial Differential Equations with Constant Coefficients, 6. Partial Differential Equations Reducible to Equations with Constant Coefficients, 7. Partial Differential Equations of Order Two with Variable Coefficients, 8. Classification of P.D.E. Reduction to Canonical Or Normal Forms Riemann Method, 9. Cauchy Initial Value Problem for Linear First Order Partial Differential Equations, Part IIIA: Fourier Series, 1. Fourier Series

Part IIIB: Boundary Value Problems and Their Solutions by Separation of Variables, 1. Heat, Wave, Laplace, and Poisson Equations. Method Of Separation of Variables, 2. Boundary Value Problems in Cartesian Co-Ordinates, Section I: Problems Based on One-Dimensional Heat (Or Diffusion) Equation, Section II: Problems Based on Two-Dimensional Heat (Or Diffusion) Equation,Section III: Problems Based on Three-Dimensional Heat (Or Diffusion) Equation, Section IV: Problems Based on One-Dimensional Wave Equation, Section V: Problems Based on Two-Dimensional Wave Equation, Section VI: Problems Based on Three-Dimensions Wave Equation, Section VII: Problems Based on Two-Dimensional Laplace's Equation, Section VIII: Problems Based on Three-Dimensional Laplace' Equation, Section IX: Solution of Dirichlet Problem Involving the Poisson Equation, 3. Boundary Value Problems in Polar Coordinates, 4. Boundary Value Problems in Cylindrical Coordinates, 5. Boundary Value Problems in Spherical Coordinates, Part IVA: Laplace Transforms with Applications, 1. The Laplace Transform, 2. The Inverse Laplace Transform, 3. Applications to Ordinary Differential Equations 4. Applications to Integral Equations, 5. Applications to Boundary Value Problems, Part IVB: Fourier Transforms and their Applications, 1. Fourier Integrals and Fourier Transforms, 2. Finite Fourier Transforms

Part IVC: The Hankel Transforms and their Applications, 1. The Hankel Transform and Its Applications, 2. The Finite Hankel Transform and Its Applications

Part V: Calculus of Variations with Applications, 1. Variational Problems with Fixed Boundaries, 2. Variational Problems with Moving (or Free) Boundaries. One Sided Variation , 3. Sufficient Conditions for An Extremum, 4. Direct Methods in Variational Problems

**M.D. Raisinghania,** M.Sc.; Ph.D., is formerly Reader and Head of the Mathematics Department at S.D. (Postgraduate) College, Muzaffarnagar. He obtained his Ph.D. in Mathematics on the thesis entitled “An Analytical Study of Some Non-Newtonian Fluid Flow Problems”. He has a rich experience of 38 years in teaching Mathematics to both undergraduate and postgraduate students.




## Differential Equations: CBCS Semester II – Eastern India Universities

H K Dass, Rajnish Verma & Dr. Rama Verma

### About the Book

"Differential Equations (CBCS)" is designed as per the UGC Choice Based Credit System (CBCS) curriculum to meet the requirements of undergraduate students of mathematics and aptly covers Differential Equations and Mathematical Models. Major topics such as Cauchy-Euler, Total and Linear Partial Differential Equations of First Order (Lagrange-Charpit Method) have been dealt with deftly to provide a further insight in the subject. Written in a lucid and concise manner, the textbook has an adept balance between theory with practice.

### Key Features

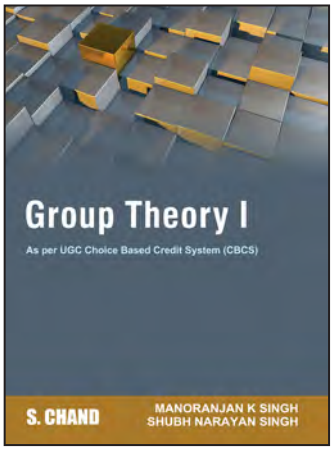
- On the Website: Lipschitz condition and Picard's Theorem and the Existence and Uniqueness Theorem
- Close to 400 examples aid in ease of understanding of the concepts
- More than 900 questions (as in-text and book-end exercises) to enhance and strengthen learning quotient
- Additional Roadmap for the syllabuses of Odisha State, Burdwan, Calcutta, Dibrugarh and Gauhati universities

**ISBN: 9789355013767 | Price: ₹ 360 | Pages: 448 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Differential Equations and Mathematical Models, 2. Separable Equations and Reducible Form, 3. First Order Homogeneous, Non-Homogeneous Differential Equations, 4. First Order Linear Differential Equations, 5. Exact Differential Equation and Integrating Factors, 6. First Order Higher Degree Equations, 7. Application of First Order Differential Equations, 8. Compartmental Models, 9. Linear Differential Equations with Constant Coefficients, 10. Differential Equations with Variable Coefficients, 11. Cauchy - Euler Differential Equation, 12. Method of Variation of Parameters, 13. Method of Undetermined Coefficients, 14. Simultaneous Differential Equations, 15. Total Differential Equations, 16. Applications of Second Order Differential Equation, 17. Phase-plane Analysis of Compartmental Models, 18. Linear Partial Differential Equations of First Order: Lagrange-Charpit Method, 19. Linear and Nonlinear Partial Differential Equations, 20. Classification of Partial Differential Equations, 21. Partial Differential Equations: Method of Separation of Variables, 22. Power Series Solutions, 23. Bessel's Functions

• Latest Examination Questions • Index




## Group Theory I ( UGC-CBCS)

Dr. Manoranjan Kumar Singh & Dr. Shubh Narayan Singh

### About the Book

"Group Theory I" is designed as per the UGC Choice Based Credit System (CBCS) curriculum to meet the requirement of undergraduate students of mathematics and aptly covers the fundamental principles, Homomorphisms and Isomorphisms, Subgroups, Symmetric, Abelian and Cyclic Groups among other topics. Written in a lucid and concise manner, the textbook is an adept balance between theory with practice.

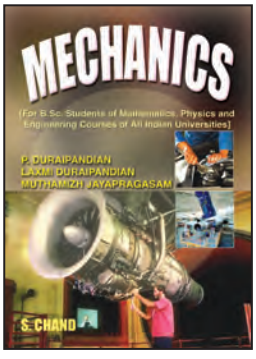
### Key Features

- Special write-up on Applications of Group Theory in Human Life
- More than 150 tables, figures, examples and solved problems for easy understanding of the concepts
- Close to 1600 chapter-end and book-end questions in four different formats to enhance and strengthen learning quotient
- Additional Roadmap for the syllabuses of Odisha State, Burdwan, Calcutta, Dibrugarh and Gauhati universities

**ISBN: 9789355011619 | Price: ₹ 235 | Pages: 256 | Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Introduction and Definitions, 2. Further Examples of Groups, 3. Elementary Properties of Groups, 4. Homomorphisms and Isomorphisms, 5. Subgroups 6. Symmetric Groups, 7. Abelian Groups, 8. Cyclic Groups, 9. Cosets and Lagrange's Theorem, 10. Normal Subgroups and Quotient Groups, 11. Isomorphism Theorems, 12. Group of Isometries and Dihedral Group, Objective Type Questions for Practice



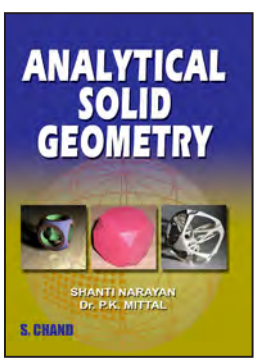

## Mechanics

P Duraipandian, Laxmi Duraipandian & Muthamizh Jayapragasam

**ISBN: 9788121902724**
**Code: 1014A00199**
**Price: ₹ 445 | Pages: 400**
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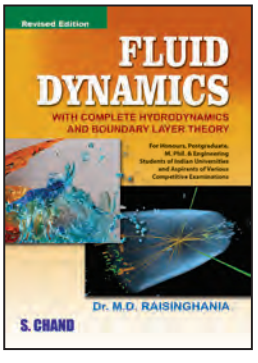

## Analytical Solid Geometry

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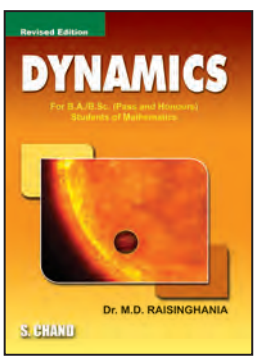

## Fluid Dynamics

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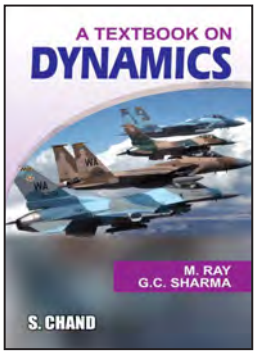

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M D Raisinghania

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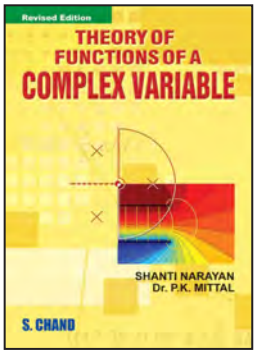
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### About the Book

B.A. and B.Sc. Student of all Indian Universities. A few examples have been added as per need of the topic. The chapters on Central Force, Moment of Intertia an D'Alembert's Principle, have been revised. Efforts have been made to eliminate printing errors.

### Contents

1. Kinematics and Kinetics, 2. Rectilinear Motion, 3. Uniplanar Motion, 4. Work, Energy and Impulse, 5. Impact, 6. Circular and Harmonic Motions, 7. Hodograph, 8. Central Forces, 9. Resisting Medium, 10. Constrained Motion, 11. Moment of Inertia, 12. D'Alembert's Principle and the Equations of Motion



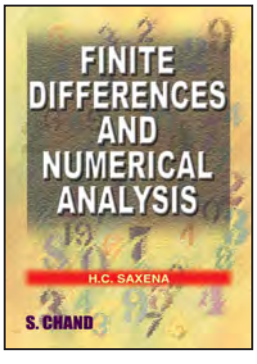

## Theory of Functions of a Complex Variable

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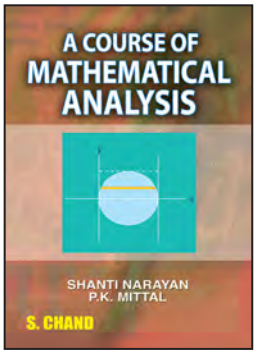

## Finite Differences and Numerical Analysis, 14e

H C Saxena

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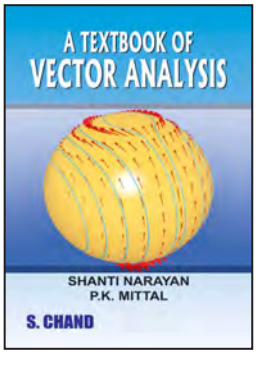

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Shanti Narayan & P K Mittal

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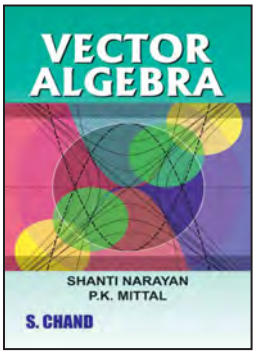

## A Textbook of Vector Analysis

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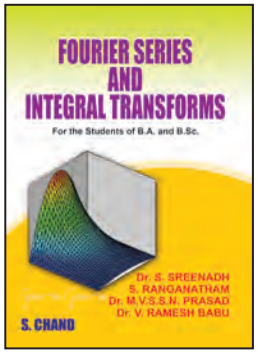

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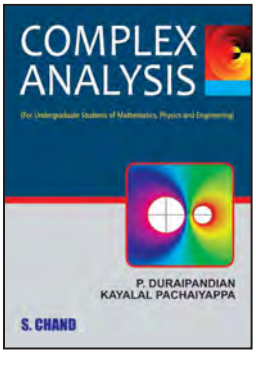

## Fourier Series and Integral Transforms

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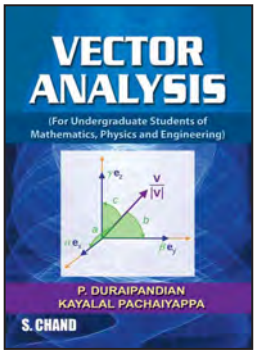

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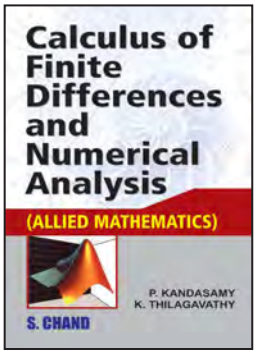

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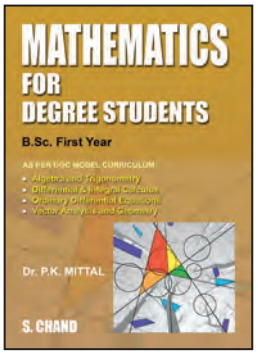

## Calculus of Finite Differences and Numerical Analysis

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## Mathematics for Degree Students (For B.Sc. First Year)

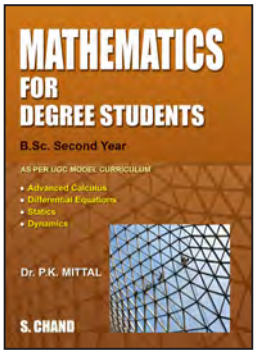
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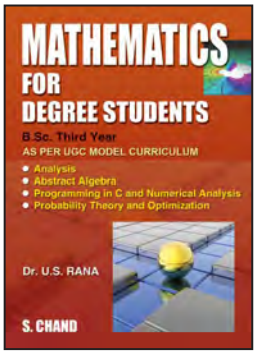

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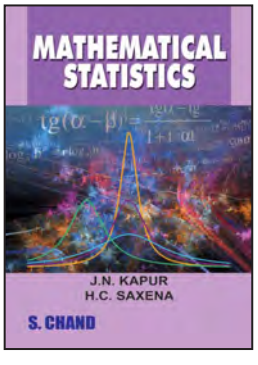

## Mathematics for Degree Students (For B.Sc. Third Year)

U S Rana

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## Mathematical Statistics

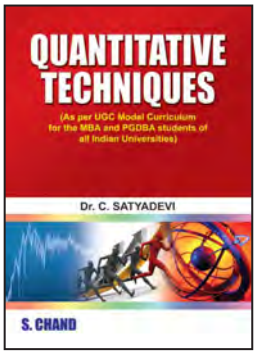
J N Kapur & H C Saxena

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16. Tests of Significance Based on the Chi-Square Distribution, 17. Statistical Theory of Point Estimation, 18. Testing of Hypotheses, Sequential Analysis Distribution-Free Methods, Statistical Decision Theory, 19. Elements of Stochastic Processes, 20. Order Statistics • *Appendices: I. Multivariate Normal Distribution, II. Theory of Errors, III. Borel-Cantelli Lemma • Index • Log Tables • Statistical Tables*



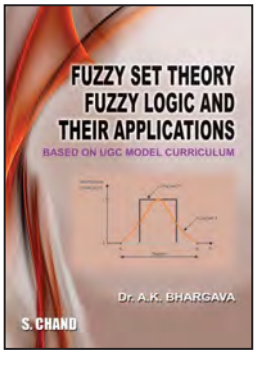

## Quantitative Techniques

C Satyadevi

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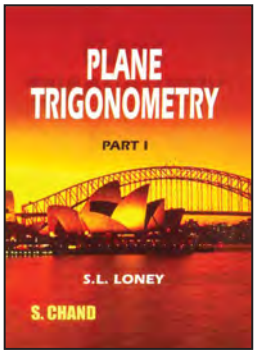

## Fuzzy Set Theory Fuzzy Logic and their Applications

A K Bhargava

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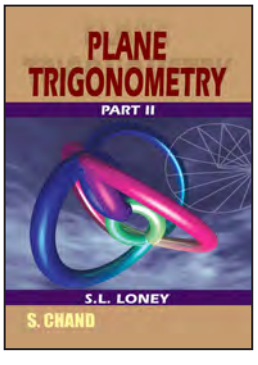

## Plane Trigonometry - Part-I

S L Loney

**ISBN: 9788121908016**
**Code: 1014000286**
**Price: ₹ 295 | Pages: 414**
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### Contents

1. Measurement of Angles; Sexagesimal, Centesimal and Circular Measure, 2. Trigonometrical Ratios for Angles less than a Right Angle, 3. Simple Problems in Heights and Distances, 4. Application of Algebraic Signs to Trigonometry, 5. Trigonometrical Functions of Angles of any Size and Sign, 6. General Expression for all Angles Having a Given Trigonometrical Ratio, 7. Trigonometrical Ratio of the Sum and Difference of Two Angles, 8. The Trigonometrical Ratio of Multiple and Submultiple Angles, 9. Identities and Trigonometrical Equations, 10. Logarithms, 11. Tables of Logarithms and Trigonometrical Ratios, Principle of Proportional Parts, 12. Relations Between the Sides and the Trigonometrical Ratios of the Angles of any Triangle, 13. Solution of Triangles, 14. Heights and Distances, 15. Properties of a Triangles, 16. On Quadrilaterals and Regular Polygons, 17. Trigonometrical Ratios of Small Angles, Area of a Circle, DIP of the Horizon, 18. Inverse Circular Functions, 19. On Some Simple Trigonometrical Series, 20. Elimination, 21. Projections • *Miscellaneous Examples • Answers • Table of Logarithms, Natural Sines, Cosines and Tangents, Logarithms Sines, Cosines Tangents and Radian Measure of Angles*



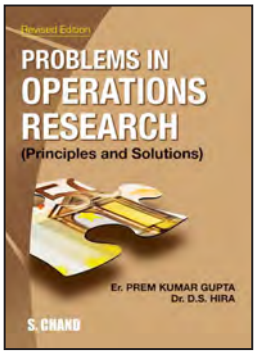

## Plane Trigonometry - Part-II

S L Loney

**ISBN: 9788121909181**
**Code: 1014000287**
**Price: ₹ 195 | Pages: 240**
**Size: 4.75" X 6.5" (Paperback)**

### Contents

1. Exponential and Logarithms Series, 2. Complex Quantities, DE Moivre's Theorem, 3. Expansions of sin nq and cos nq, Series for sinq and cosq in Powers of q, 4. Expansions of Sines and Cosines of Multiple Angles and of Powers of Sines and Cosines, 5. Exponential Series for Complex Quantities, Circular Functions for Complex Angles, Hyperbolic Functions, 6. Logarithm of Complex Quantities, 7. Gregory's Series Calculation of the Values of p, 8. Summation of Series, Expansions in Series, 9. Resolution into Factors, Infinite Products for Sinq and Cosq, 10. Principle of Proportional Parts, 11. Errors in Observation, 12. Miscellaneous Propositions • Miscellaneous Examples • Additional Miscellaneous Examples • Answers



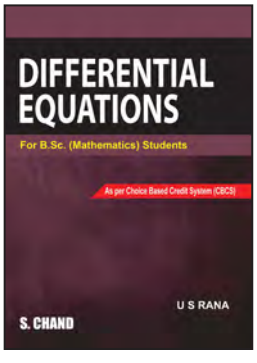

## Problems in Operations Research

Prem Kumar Gupta & D S Hira

**ISBN: 9788121909686**
**Code: 1010C00128**
**Price: ₹ 995 | Pages: 1,304**
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### Contents

1. Basics of Operations Research, 2. Linear Programming, 3. The Transportation Model, 4. The Assignment Model, 5. Sequencing Models & Related Problems, 6. Advanced Topics in Linear Programming, 7. Dynamic Programming, 8. Probability Theory, 9. Decision Theory, Games, Investment Analysis and Annuity, 10. Queuing Models, 11. Replacement Models, 12. Inventory Models, 13. Simulation, 14. Network Analysis in Project Planning (PERT and CPM), 15. Statistical Quality Control, 16. Non-Linear Programming




## Differential Equations

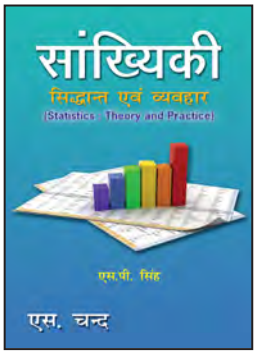
U S Rana

As Per CBCS

**ISBN: 9789352535439**
**Code: 10HE000025**
**Price: ₹ 395 | Pages: 448**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Differential Equations, 2. Differential Equations of First Order and First Degree, 3. Equations of First Order and Higher Degree, 4. Linear Differential Equations, 5. Linear Differential Equations with Constant, 6. Homogeneous Linear Differential Equations, 7. Linear Equations of Second Order, 8. Ordinary Simultaneous Differential Equations, 9. Total Differential Equations, 10. Partial Differential Equations, 11. Partial Differential Equations of Order One, 12. Classification of Partial Differential Equations of Second Order




## सांख्यिकी सिद्धान्त एवं व्यवहार

एस पी सिंह

**ISBN: 9788121900379**
**Code: 1007D00093**
**Price: ₹ 825 | Pages: 1,316**
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### पुस्तक के विषय में

इस संस्करण में पूर्णतया नए लिखे गए अध्याय-सांख्यिकी माध्य बहुगुणी सहसम्बन्ध तथा प्रतीपगमन शामिल किये गए हैं।

इस पुस्तक में सांख्यिकीय सूत्रों तथा विधियों के स्पष्टीकरण हेतु सरल तथा जटिल-दोनों प्रकार के उदाहरणों का समावेश किया गया है। अभ्यास हेतु वस्तुनिष्ठ-प्रश्न-बैंक नामक खण्ड में 620 प्रश्नों का समावेश किया गया है।

### प्रमुख विशेषताएँ

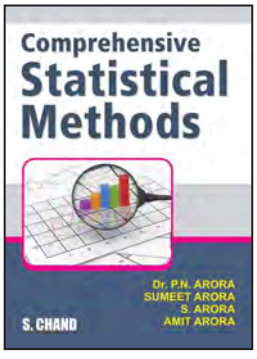
- लगभग 1180 हल किए गए उदाहरण
- अभ्यास-प्रश्न के रूप में 2550 प्रश्नों का विशाल संकलन
- प्रत्येक सूत्र तथा रीति का हल उदाहरण द्वारा स्पष्टीकरण

### Contents

#### विषय-सूची

खण्ड (अ): सांख्यिकी का सैद्धान्तिक विवेचन: 1. सांख्यिकी की परिभाषा, क्षेत्र एवं प्रकृति, 2. सांख्यिकी के कार्य, महत्व एवं सीमाएँ, 3. सांख्यिकीय अनुसन्धान का आयोजन, 4. समंको का संकलन, 5. संगणना तथा प्रतिदर्श अनुसंधान, 6. समकों का सम्पादन, 7. वर्गीकरण एवं सारणीयन, 8. समंकों का चित्रमय प्रदर्शन, 9. समंकों का बिन्दुरेखीय प्रदर्शन, 10. केन्द्रीय प्रवृति के माप–सांख्यिकीय माध्य, 11. अपकिरण तथा विषमता, 12. परिघात एवं पृथुशीर्षत्व, 13. सहसम्बन्ध, 14. सूचकांक, 15. काल-श्रेणी का विश्लेषण, 16. सरल प्रतीपगमन, 17. बहुगुणी सहसम्बन्ध तथा बहुगुणी प्रतीपगमन, 18. व्यावसायिक पूर्वानुमान, 19. आन्तरगणन एवं बाह्यगणन, 20. गुण-सम्बन्ध या गुण-साहचर्य, 21. आसंग एवं काई-वर्ग परीक्षण, 22. प्रायिकता अथवा सम्भावना, 23. सैद्धान्तिक आवृति बंटन, 24. प्रतिचयन सिद्धान्त एवं सार्थकता-परीक्षण, 25. सार्थकता-परीक्षण–बड़े प्रतिदर्श, 26. गुण-समंको में सार्थकता-परीक्षण, 27. सार्थकता-परीक्षण–छोटे प्रतिदर्श, 28. प्रसरण विश्लेषण, 29. सांख्यिकीय गुण-नियन्त्रण, खण्ड (ब): भारतीय सांख्यिकी या समंक: 1. भारत में सांख्यिकीय व्यवस्था, 2. उत्तर प्रदेश में सांख्यिकीय व्यवस्था, 3. मध्य प्रदेश में सांख्यिकीय व्यवस्था, 4. जनसंख्या समंक, 5. राष्ट्रीय आय समंक, 6. कृषि-समंक, 7. औद्योगिक समंक, 8. मूल्य समंक, 9. व्यापार समंक, 10. श्रम समंक, 11. भारतीय समंकों के सामान्य दोष • वस्तुनिष्ठ एवं बहुविकल्प प्रश्नमाला • सांख्यिकीय सारणियाँ

एस.पी. सिंह, भूतपूर्व विभागाध्यक्ष, अर्थशास्त्र विभाग, मेरठ कॉलेज, मेरठ



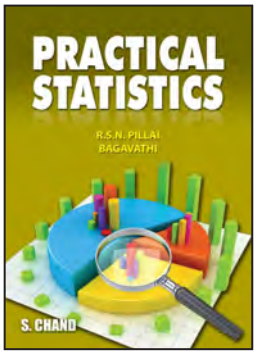

## Comprehensive Statistical Methods

P N Arora, Sumeet Arora, S Arora & Amit Arora

**ISBN: 9788121927765**
**Code: 1007A00426**
**Price: ₹ 1395 | Pages: 1,696**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Statistics - Definition, Scope and Distrust, 2. Classification and Tabulation of Data, 3. Diagrammatic and Graphic Presentation of Data, 4. Measures of Central Tendency or Averages, 5. Measures of Dispersion, 6. Skewness, Moments and Kurtosis, 7. Correlation Analysis, 8. Regression Analysis, 9. Time Series and Forecasting, 10. Index Numbers, 11. Probability and Bayes' Theorem, 12. Random Variable and Mathematical Expectation, 13. Theoretical Distributions, 14. Statistical Decision Theory, 15. Sampling, 16. Theory of Estimation, 17. Statistical Inference – Tests of Significance, 18. Chi-Square Test and Goodness of Fit, 19. F-Distribution and Analysis of Variance, 20. Association of Attributes, 21. Interpolation and Extrapolation, 22. Partial and Multiple Correlation and Regression, 23. Statistical Quality Control, 24. Non-Parametric Methods, 25. Special Theoretical Distributions, 26. Factorial Analysis, 27. Revision Techniques [Results and Formulae – Chapterwise] • Statistical Tables




## Practical Statistics

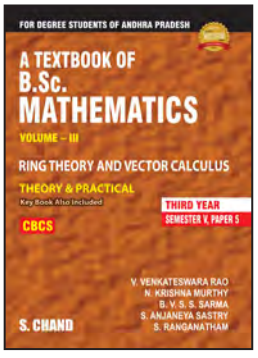
R S N Pillai & Bagavathi

**ISBN: 9788121900447**
**Code: 1007A00182**
**Price: ₹ 595 | Pages: 840**
**Size: 6.5" X 9.25" (Paperback)**

### Contents

1. Classification and Tabulation, 2. Graphic and Diagrammatic Representation, 3. Measures of Central Tendency, 4. Measures of Dispersion, 5. Measures of Skewness, Moments and Kurtosis, 6. Correlation, 7. Regression, 8. Index Number, 9. Analysis of Time Series, 10. Interpolation and Extrapolation, 11. Association of Attributes, 12. Probability, 13. Theoretical Distributions, 14. Sampling Theory and Tests of Significance, 15. Chi-Square Tests, 16. Partial and Multiple Correlation, 17. Miscellaneous, 18. Logarithm and their Uses • *Logarithmic Tables*

# Books for Andhra Pradesh




## A Textbook of B.Sc. Mathematics, Vol. III Ring Theory and Vector Calculus

V. Venkateswara Rao
N. Krishnamurthy
B.V.S.S. Sarma
S. Anjaneya Sastry
& S. Ranganatham

**ISBN: 9789352830336 | Code: 10HE000029 | Price: ₹ 225**
**Pages: 232 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

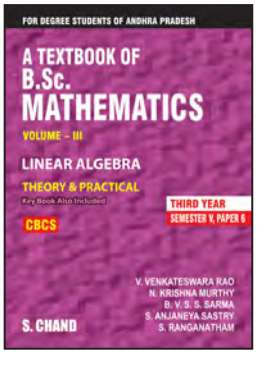
This Textbook of B.Sc. Mathematics is written for the students studying Third year as Andhra Pradesh. The revised syllabus is being adopted by all universities in Andhra Pradesh, following Common Core Model Curriculum from the academic year 2015-2016(revised in 2016). The book strictly covers the new Curriculum for Semester V (3rd Year, 5th Semester-Paper 5).

### Key Features

- The book is based as per pattern CBCS.
- Objective type questions covering multiple choice type and fill in the blanks type questions useful for M.Sc. entrance tests are given with answers at the end of each section.
- Detailed solution for all problems in the various exercises of different chapters are given at the end.

### Contents

1. Rings, Integral Domains & Fields, 2. Subrings, Ideals, Quotient Rings & Euclidean Rings, 3. Homomorphism's of Rings, Maximal and Prime Ideals, Problem for Practical's & Objective type questions, 4. Derivative of a Vector Function, 5. Differential Operators, 6. Integration of Vector,7. Integral Transformations, Problem for Practical's & Objective Questions, Key to "A Textbook of B.Sc. Mathematics – Vol. – III"




## A Textbook of B.Sc. Mathematics, Vol. III 3rd Year - Linear Algebra

V. Venkateswara Rao
N. Krishnamurthy
B.V.S.S. Sarma
S. Anjaneya Sastry
S. Ranganatham

**ISBN: 9789352830268 | Code: 10HE000053 | Price: ₹ 300**
**Pages: 280 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This Textbook of B.Sc. Mathematics is written for the students studying Third year Andhra Pradesh. The revised syllabus is being adopted by all universities in Andhra Pradesh, following Common Core Model Curriculum from the academic year 2015-2016(revised in 2016). The book strictly covers the new Curriculum for Semester V (3rd Year, 5th Semester-Paper 6).

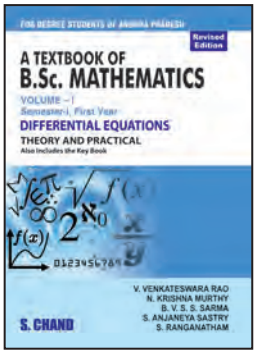
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- The book is based as per pattern CBCS.
- Objective type questions covering multiple choice type and fill in the blanks type questions useful for M.Sc. entrance tests are given with answers at the end of each section.
- Detailed solution for all problems in the various exercises of different chapters are given at the end.

### Contents

1. Vector Spaces, 2. Basis and Dimension, 3. Linear Transformation, 4. Vector Space Isomorphism, 5. Problems for Practical's, 6. Fundamentals of Matrices, 7. Characteristics Values and Characteristics Vectors, 8. Cayley-Hamilton Theorem, 9. Inner Product Spaces, 10. Orthogonality, 11. Problem for Practical's & Objective Questions, Key to "A Textbook of B.Sc. Mathematics – Vol. – III"

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## A Textbook of B.Sc. Mathematics, Vol. I, Differential Equations (Semester - I First Year)

V. Venkateswara Rao, B.V.S.S. Sarma, N. Krishnamurthy, S. Anjaneya Sastry & S. Ranganatham

**ISBN: 9789352839049**
**Price: ₹ 350 | Pages: 424**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

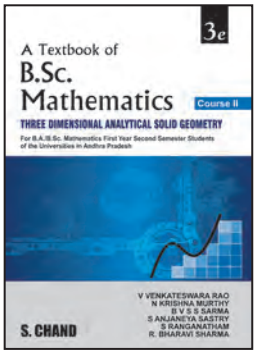
The revised syllabus for core courses in CBCS / Semester system is being followed by all the universities in Andhra Pradesh, from the academic year 2020 - 2021. This book strictly covers the new curriculum for Course I (Semester I - 1st year, 1st semester) under this syllabus

### Key Features

- Under Co-Curricular Activities "Quiz, Problems for "Problems Solving Session", Applications of Differential Equations in Real life Problems and Model Question Paper" are also included to make the book more comprehensive

### Contents

UNIT 1 1. Introduction, 2. Differential Equations of First order and First Degree, UNIT 2, 3. Orthogonal Trajectories, 4. 4. Differential Equations of First order but not of First Degree, UNIT 3 & 4, 5. Higher Order Linear Differential Equations I & II, UNIT 5, 6. Higher Order Linear Differential Equations - III (Non-Constant Coefficients) Co-Curricular Activities,, • Quiz, • Problems for "Problems Solving Session", • Applications of Differential Equations in Real life Problems, • Model Question Paper




## A Textbook of B.Sc. Mathematics Vol. II: (First Year Sec. Sem. Andhra Pradesh) 3e

V. Venkateswara Rao, Dr. R. Bharavi Sharma, B.V.S.S. Sarma, N. Krishnamurthy, S. Anjaneya Sastry & S. Ranganatham

**ISBN: 9789355017277**
**Price: ₹ 350 | Pages: 352**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

This book has been written strictly according to new curriculum for First Year: Second Semester students at all Universities of Andhra Pradesh. It covers Equation of Plane in Terms of Its Intercepts on the Axis, Combined equation of Two Planes, Orthogonal Projection on a Plane, Equation of a line, Angle between a Line and a Plane, The condition that Two Given Lines are Coplanar, Length of the Perpendicular from a Given Point to a Given Line, Definition and Equation of the Sphere, Equation of a Circle, Power of a point, Plane of Contact, Polar Plane, Pole of a Plane, Angle of Intersection of Two Spheres, Coaxial system of spheres, Definitions of a Cone, Vertex, Guiding Curve, Generators, Enveloping Cone of a Sphere, Tangent Lines and Tangent Plane at a Point, Intersection of Two Cones with a Common Vertex etc. The book will guide the students in a proper way and inspire them to sure and brilliant success.

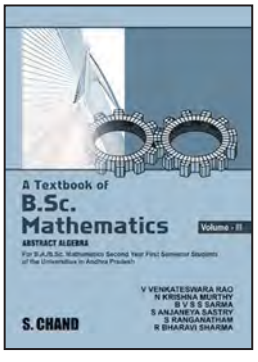
### Key Features

- New curriculum for Course II (Semester II - 1st year, 2nd semester) is strictly covered
- Quiz, problems for Problem Solving Sessions included
- Detailed solutions for all the problems

### Contents

UNIT I 1. Introduction, 2. Coordinates, 3. The Plane, UNIT - II, 4. Right Line, UNIT - III, , 5. The Sphere, UNIT - IV, 6. The Sphere (Contd.) , . The Cone, , UNIT - V: Bessel's Functions, 8. The Cone (Contd.)

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## A Textbook of B.Sc. Mathematics (Real Analysis): Volume IV for Andhra Pradesh Universities

V. Venkateswara Rao et al.

**ISBN: 9789355010179**
**Price: ₹ 325 | Pages: 312**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

"A Textbook of B.Sc. Mathematics [Abstract Algebra] Volume III (Andhra Pradesh)" strictly covers the new curriculum for Semester III (2nd year, 1st semester). It covers types of Groups, Sub-Groups, Homomorphism, Permutations, Cyclic groups, and basic properties of Rings with reference to the revised syllabus with Highlighted topics and theorems included for making the book more comprehensive and co-curricular activities are provided at the end of the book to supplement the curriculum.

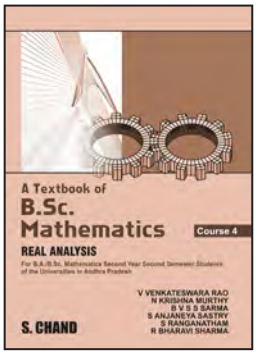
### Key Features

- Divided into 10 chapters, the book elucidates all theories in an apropos manner.
- Over 150 Theorems are provided to develop a deeper understanding of the underlying concepts.
- More than 400 solved examples and unsolved exercises strengthen the well-explained theoretical concepts.

### Contents

1. Binary Operations, 2. Groups, 3. Subgroups, 4. Cosets and Lagrange's Theorem, 5. Normal subgroups, 6. Homomorphisms, Isomorphisms of Groups, 7. Permutation Groups, 8. Cyclic Groups, 9. Rings, Integral Domains & Fields,10. Subrings, Ideals, Quotient Rings & Euclidean Rings

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## A Textbook of B.Sc. Mathematics (Linear Algebra): Volume IV

V. Venkateswara Rao, N. Krishnamurthy, B.V.S.S. Sarma, S. Anjaneya Sastry, S. Ranganatham & Dr. R. Bharavi Sharma

**ISBN: 9789355014412**
**Price: ₹ 395 | Pages: 448**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

"A Textbook of B.Sc. Mathematics [Real Analysis]" strictly covers the new curriculum for Course 4 (2nd year, 2nd semester) of universities in Andhra Pradesh. It covers Real Numbers, Sequences and Infinite Series with p-test, Cauchy's nth root test or Root Test, D'-Alembert's Test or Ratio Test, Alternating Series - Leibnitz Test.

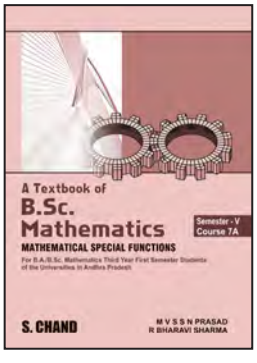
### Key Features

- Strictly covers the new curriculum for Course 4 (2nd year, 2nd semester) of universities in Andhra Pradesh.
- Over 300 solved problems for easy understanding of the concepts.
- 350 exercise questions strengthen the well-explained theoretical concepts.

### Contents

UNIT - 1 The Real Numbers, 2. Sequences, UNIT - 2, 3. Infinite Series, UNIT - 3, 4. Limits and Continuity, UNIT - 4, 5. Differentiation, UNIT - 5, 6. Riemann Integration, Co-Curricular Activities, • Quiz (Objective Type Questions), Assignments, • Questions for "Problems Solving Session", • Applications of Real Analysis, • Model Question Paper, • Key to "A Textbook B. Sc. Mathematics - Vol. II, • (Course 4- Real Analysis)"

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## A Textbook of B.Sc. Mathematics Semester - V [Course 7A] Mathematical Special Functions :

Dr. M.V.S.S.N. Prasad
Dr. R. Bharavi Sharma

**ISBN: 9789355015518**
**Price: ₹ 225 | Pages: 216**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

This book has been written strictly according to the latest syllabus of All Universities of Andhra Pradesh state for B.Sc. Third Year (Vth Semester) students. It covers Beta and Gamma Functions, Chebyshev Polynomials, Power Series Solutions of Ordinary Differential Equations, Hermite Polynomials, Legendre Polynomials, Bessel Functions. The book will guide the students in a proper way and inspire them to sure and brilliant success.

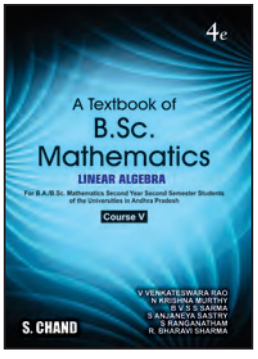
### Key Features

- The book has been written in simple and lucid language
- Close to 200 solved examples are given in each chapter to illustrate the various concepts and methods
- Close to 100 chapter-end questions to enhance the learning quotient.

### Contents

UNIT I : Beta and Gamma Functions, Chebyshev Polynomials, 1.Beta and Gamma Functions, 2.Chebyshev Polynomials, UNIT - II: Power Series Solutions of Ordinary Differential Equations, 3.Power Series Solutions of Ordinary Differential Equations, UNIT - III: Hermite Polynomials, 4.Hermite Polynomials, UNIT - IV: Legendre Polynomials, 5.Legendre Polynomials, UNIT - V : Bessel's Functions, 6.Bessel Functions

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## A Textbook of B.Sc. Mathematics (Linear Algebra): Volume V

V. Venkateswara Rao, N. Krishnamurthy, B.V.S.S. Sarma, S. Anjaneya Sastry, S. Ranganatham & Dr. R. Bharavi Sharma

**ISBN: 9789355017253**
**Price: ₹ 325 | Pages: 312**
**Size: 6.5" X 9.25" (Paperback)**

### About the Book

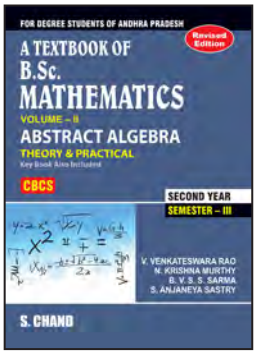
This book has been written strictly according to new curriculum for Second Year: Second Semester students at all Universities of Andhra Pradesh. It covers important topics such as Vector Spaces, Basis and Dimension, Linear Transformation, Fundamentals of Matrices, Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem, Inner Product Spaces, and Orthogonality. The book will guide the students in a proper way and inspire them to sure and brilliant success. The authors are very happy that the earlier editions have been very well used by the students.

### Key Features

- The book has been written in simple and lucid language.
- Quiz, Questions for Problem Solving Session, Applications of Linear Algebra" are included to make the book more comprehensive.
- Detailed solutions for all problems in the various exercises of different chapters are given at the end.
- Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)" of 60 pages are also included at the end of the book.

### Contents

UNIT I, 1. Vector Spaces, UNIT - II, 2. Basis and Dimension, UNIT - III, 3. Linear Transformation, UNIT - IV, 4. Fundamentals of Matrices, 5. Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem, UNIT - V, 6. Inner Product Spaces, 7. Orthogonality, Co-Curricular Activities , Quiz (Objective Type Questions) ,Questions for "Problems Solving Session" , Applications of Linear Algebra, Model Question Paper & Previous Question Papers, Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)"




## A Textbook of B.Sc. Mathematics Abstract Algebra

V. Venkateswara Rao
N. Krishnamurthy
B.V.S.S. Sharma
S. Anjaneya Sastry

**ISBN: 9789352834013 | Code: 1007000609 | Price: ₹ 325**
**Pages: 260 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This Textbook of B.Sc. Mathematics for the students studying Second year in all universities of Andhra Pradesh was first published in the year 1988 and has undergone several editions and many reprints. The revised syllabus is being adopted by all the universities in Andhra Pradesh, following Common Core model curriculum from the academic year 2015-2016 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester III (2nd Year, 3rd Semester)

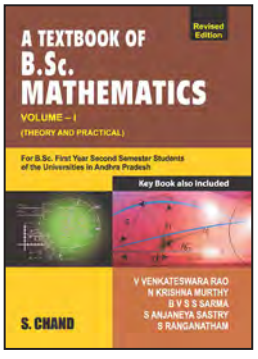
### Key Features

- Detailed solutions for all the problems in the various exercises of different chapters are given at the end.
- Objective type questions covering multiple choices type and fill in the blank type questions which are useful to M.Sc. entrance tests are given with answers at the end of each section.

### Contents

1. Number Theory, 2. Binary Operation, 3. Groups, 4. Sub groups, 5. Cosets and Language' Theorem, 6. Normal subgroups, 7. Homomorphisms, Isomorphisms of groups, 8. Permutation Groups, 9. Cyclic Groups, Problems for practicals, Objective Type Questions, Solved Question papers of different Universities in A.P. – 2017, • Key To "A Textbook B.Sc., Mathematics - Second Year"Semester III

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N. Krishnamurthy: M.Sc., Former Head of Department of Mathematics, V.V. College, Hyderabad
B.V.S.S. Sharma: M.Sc., Former Senior Lecturer in Mathematics V.S.R. & N.V.R. College, Tenali
S. Anjaneya Sastry: M.A. Former Head of the Department of Mathematics, V.S.R. & N.V.R. College, Tenali




## A Textbook of B.Sc. Mathematics

V Venkateswara Rao
N Krishnamurthy
B V S S Sarma
S Anjaneya Sastry
S Ranganatham

**ISBN: 9789352836277 | Code: 9789352836277 | Price: ₹ 425**
**Pages: 384 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This Text book of B.Sc. Mathematics for the students studying First year in all universities of Andhra Pradesh was first published in the year 1988 and has under gone several editions and many reprints.

The revised syllabus is being adopted by all the universities in Telangana State, following Common Core model curriculum from the academic year 2016–2017 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester V (3rd year, 1st semester-Elective). Solutions are provided for the questions of Practical Question Bank. Key for the exercise problems appended at the end.

### Key Features

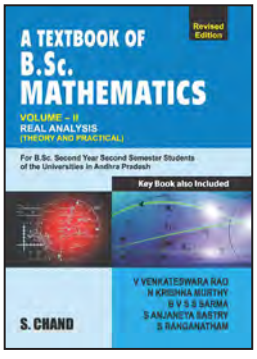
- The revised syllabus is being adopted by all the universities in Telangana State, following Common Core model curriculam from the academic year 2016 – 2017 based on CBCS (Choice Based Credit System).
- This book strictly covers the new curriculum for Semester V (3rd year, 1st semester-Elective).
- Solutions are provided for the questions of Practical Question Bank.
- Key for the exercise problems appended at the end.

### Contents

1. Introduction, 2. Coordinates, 3. The Plane, 4. Right Line, 5. Change of Axes, 6. The Sphere, 7. The Cone, 8. The Cylinder, 9. The Central Conicoid,• Objective Type of Questions • Problem for Practicals • Key to " A Textbook of B.Sc. Mathematics Vol I (II nd Sem)"• Question Papers

V. Venkateshwararao: M.Sc., Former Vice Principal and Head of the Department of Mathematics, Hindu College, GUNTUR
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S. Anjaneya Sastry: M.A. Former Head of the Department of Mathematics, V.S.R. & N.V.R. College, Tenali

S. Ranganatham M. Sc. M. Phil. Former Head of the Deptt. of MathematicsJawahar Bharathi Degree College, Kavali.




## A Textbook of B.Sc. Mathematics Real Analysis

V Venkateswara Rao
N Krishnamurthy
B V S S Sarma
S Anjaneya Sastry
S Ranganatham

**ISBN: 9789352836284 | Code: 9789352836284 | Price: ₹ 395**
**Pages: 456 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This Textbook of B.Sc. Mathematics for the students studying Second year in all universities of Andhra Pradesh was first published in the year 1988 and has under gone several editions and many reprints. The revised syllabus is being adopted by all the universities in Andhra Pradesh, following Common Core model curriculum from the academic year 2015–2016 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester IV (2nd year, 2nd semester). Solutions are provided for the questions of Practical Question Bank. Key for the exercise problems appended at the end.

### Key Features

- The revised syllabus is being adopted by all the universities in Andhra Pradesh, following Common Core model curriculum from the academic year 2015 – 2016 based on CBCS (Choice Based Credit System).
- This book strictly covers the new curriculum for Semester V (2nd year, 2nd semester).
- Objective type questions covering multiple choice type and fill in the blank type questions which are useful for M.Sc. entrance tests are given with answers at the end of each sections.
- Solutions are provided for the questions of Practical Question Bank.
- Key for the exercise problems appended at the end.

### Contents

1. The Real Numbers. 2. Sequences, 3. Infinite Series, 4. Limits and Continuity, 5. Differentiation, 6. Reimann Integration, Objective Type Questions, Practical Question Bank with solutions • Key to "A Textbook B. Sc. Mathematics-Sem IV • Question Papers 2016

## For Telangana




## A Textbook of B.Sc. Mathematics, Ring Theory and Vector Calculus (Telugu)

V. Venkateshwara Rao
N. Krishnamurthy
B.V.S.S. Sarma
S. Anjaneya Sastry
S. Ranganatham

**ISBN: 9789352830329 | Code: 10HE000052 | Price: ₹ 275**
**Pages: 256 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This Textbook of B.Sc. Mathematics (Telugu) is written for the students studying Third year in all universities of Andhra Pradesh was first published in the year 1988 and has undergone several editions and many reprints. The revised syllabus is being adopted by all universities in Andhra Pradesh, following Common Core Model Curriculum from the academic year 2015-2016(revised in 2016). The book strictly covers the new Curriculum for Semester V (3rd Year, 5th Semester-Paper 5)

### Key Features

- The book is based as per pattern CBCS.
- Objective type questions covering multiple choice type and fill in the blanks type questions useful for M.Sc. entrance tests are given with answers at the end of each section
- Detailed solution for all problems in the various exercises of different chapters are given at the end

### Contents

1. Rings, Integral Domains & Fields, 2. Subrings, Ideals, Quotient Rings & Euclidean Rings, 3. Homomorphism's of Rings, Maximal and Prime Ideals, Problem for Practical's & Objective type questions, 4. Derivative of a Vector Function, 5. Differential Operators, 6. Integration of Vector, 7. Integral Transformations, Problem for Practical's & Objective Questions, Key to "A Textbook of B.Sc. Mathematics – Vol. – III"

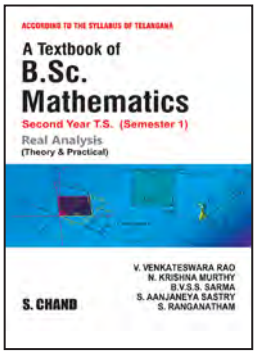
V. Venkateswara Rao, M. Sc., former Vice Principal and Head of Department of Mathematics, Hindu College, Guntur.

N. Krishnamurthy, M. Sc., former Head of department of Mathematics, V.V. College, Hyderabad.

B.V.S.S. Sarma, M. Sc., former Senior Lecturer in Mathematics, V.S.R. & N.V.R. College, Tenali.

S. Anjaneya Sastri, M. A., former Head of Department of Mathematics, V.S.R. & N.V.R. College, Tenali

S. Ranganatham, M. Sc., M. Phil. Former Head of Department of Mathematics, Jawahar Bharathi Degree College, Kavali




## A Textbook of B.Sc.Mathematics Real Analysis

V. Venkateswara Rao
N. Krishnamurthy
B.V.S.S. Sarma
S. Anjaneya Sastry
S. Ranganatham

**ISBN: 9789352830374 | Code: 10HE000057 | Price: ₹ 350**
**Pages: 386 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

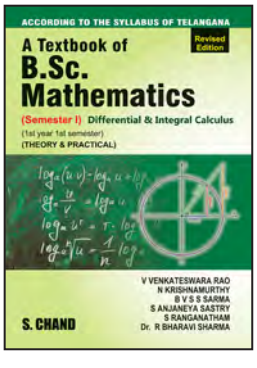
This Textbook of B.Sc. Mathematics is written for the students studying Second year First Semester in all universities of Telangana state was first published in the year 1988 and has undergone several editions and many reprints. The revised syllabus is being adopted by all universities in Andhra Pradesh, following Common Core Model Curriculum from the academic year 2015-2016(revised in 2016). The book strictly covers the new Curriculum for Semester III (2nd Year, 1st Semester).

### Key Features

- The book is based as per pattern CBCS.
- Objective type questions covering multiple choice type and fill in the blanks type questions useful for M.Sc. entrance tests are given with answers at the end of each section.
- Detailed solution for all problems in the various exercises of different chapters are given at the end.

### Contents

1. Introduction – Real number, 2. Sequences, 3. Sub Sequences & Series, 4. Limits and Continuity, 5. Sequence & Series of functions, Objective Types of questions, 6. Riemann Integration, Objective Types of questions • Key to "A Textbook of B.Sc. Mathematics – Sem. – III"




## A Textbook of B.Sc. Mathematics Semester I Differential & Integral Calculus

V Venkateswara Rao
N Krishnamurthy
B V S S Sarma
S Anjaneya Sastry
S Ranganatham
Dr. R Bharavi Sharma

**ISBN: 9789352837830 | Code: 9789352837830 | Price: ₹ 275**
**Pages: 248 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

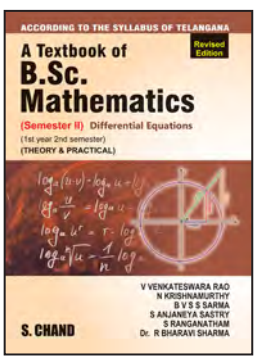
The book "A Textbook of B. Sc. Mathematics" is for the students studying in first year of Telangana State universities. The revised syllabus is being adopted by all the universities in Telangana State, following Common Core model curriculum from the academic year 2019–2020 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester I (First year, First semester). The detailed solutions for all the problems in the various exercises of different chapters are given at the end. Key for the exercise problems appended at the end.

### Key Features

- This book is strictly according to the syllabus prescribed for B. Sc. based on the guidelines by UGC for CBCS.
- Theory is explained in a lucid manner using examples at appropriate places.
- Previous years question papers with solutions are included at appropriate places
- Key book, solutions for exercise, is included.
- Objective type questions included, which are useful for PG entrance examination.

### Contents

1. Partial Differentiation, 2. Implicit functions, Taylor's Theorem, 3. Maxima and Minima, 4. Curvature and Evolutes, 5. Envelopes, 6. Lengths of Plane Curves, 7. Volumes and surfaces of Revolution • Key to "A Textbook of B. Sc. Mathematics - Vol. I"




## A Textbook of B.Sc. Mathematics Semester II Differential Equations

N Krishnamurthy
V VenkateswaraRao
B V S S Sharma
S A Sastry
S Ranganatham
Dr. R Bharavi Sharma

**ISBN: 9789352838233 | Code: 9789352838233 | Price: ₹ 365**
**Pages: 464 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

In the study of many subjects such as Physics, Chemistry and Economics, the problems faced are represented by a mathematical model called a differential equation. A differential equation is formed involving the derivatives of the unknown function has been described fully and accurately with the physical process or a geometrical law. The solution of such a differential equation gives the unknown function involved in explaining the physical process or geometrical law. Since the time of Newton, Mathematicians are in the constant search for the solution of differential equations describing the nature of a physical or geometrical law. Thus an equation formed by the derivatives of an unknown function is called a differential equation, the solution of which gives the unknown function. With the examples of geometrical nature and physical process, in this book it has been illustrated, the purpose of differential equation whose solution involves a search for the unknown function.

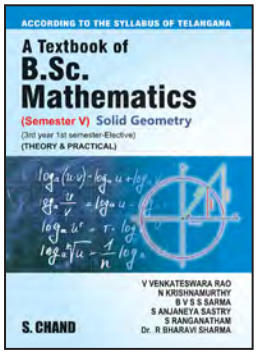
### Key Features

- A differential equation is formed involving the derivatives of the unknown function has been described fully and accurately with the physical process or a geometrical law.
- The solution of differential equation has been discussed when the unknown function involved in explaining the physical process or geometrical law.
- With the examples of geometrical nature and physical process, in this book it has been illustrated, the purpose of differential equation whose solution involves a search for the unknown function.
- Previous years question papers with solutions are included at appropriate places
- Key book, solutions for exercise, is included.

### Contents

1. Introduction, 2. Differential Equations of First order and First Degree, 3. Differential Equations of First order but not of First Degree, 4. Higher Order Linear Differential Equations (Constant coefficients), 5. Higher Order Linear Differential Equations (Non - Constant coefficients), 6. Partial Differential Equations, Objective Type Questions, • Key to "A Text Book B. Sc. Mathematics - Semester II"

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## A Textbook of B.Sc. Mathematics Semester V Solid Geometry

V Venkateswara Rao
N Krishnamurthy
B V S S Sarma
S Anjaneya Sastry
S Ranganatham
Dr. R Bharavi Sharma

**ISBN: 9789352835300 | Code: 9789352835300 | Price: ₹ 200**
**Pages: 200 | Size: 6.5" X 9.25" (Paperback)**

### About the Book

This Textbook of B.Sc. Mathematics for the students studying Second year in all universities of Andhra Pradesh was first published in the year 1988 and has undergone several editions and many reprints.

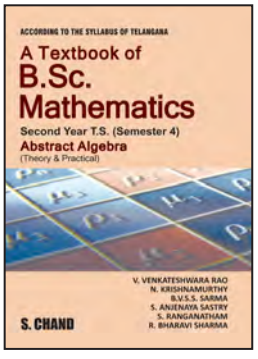
The revised syllabus is being adopted by all the universities in Telangana State, following Common Core model curriculum from the academic year 2016–2017 based on CBCS (Choice Based Credit System). This book strictly covers the new curriculum for Semester V (3rd year, 1st semester-Elective). Solutions are provided for the questions of Practical Question Bank. Key for the exercise problems appended at the end.

### Key Features

- The revised syllabus is being adopted by all the universities in Telangana State, following Common Core model curriculum from the academic year 2016–2017 based on CBCS (Choice Based Credit System).
- This book strictly covers the new curriculum for Semester V (3rd year, 1st semester-Elective).
- Solutions are provided for the questions of Practical Question Bank.
- Key for the exercise problems appended at the end.

### Contents

1. Sphere, 2. Cones, 3. Cylinder, 4. The Conicoid • Practical Question Bank with solutions Key to "A Textbook B.Sc. Mathematics-Vol. III • [5th Semester-(Solid Geometry (Elective)]




## A Textbook of B.Sc. Mathematics Abstract Algebra

V. Venkateswara Rao
N. Krishnamurthy
B.V.S.S. Sarma
S. Anjaneya Sastry
S. Ranganatham
R. Bharavi Sharma

ISBN: 9789352832507 | Code: 10HE000082 | Price: ₹ 299
Pages: 392 | Size: 6.5" X 9.25" (Paperback)

### About the Book

This Textbook of B.Sc. Mathematics is written for the students studying Second year Second Semester in all universities of Telangana state was first published in the year 1988 and has undergone several editions and many reprints. The revised syllabus is being adopted by all universities in Andhra Pradesh, following Common Core Model Curriculum from the academic year 2015-2016(revised in 2016). The book strictly covers the new Curriculum for Semester IV (2nd Year, 2nd Semester).

### Key Features

- Written as per new common core syllabus of 2016-17 based on CBCS
- For B.Sc. 2nd Year, 2nd Semester of the Universities in Telangana
- Solutions are provided for the questions of Practical question bank

### Contents

1. Groups, 2. Finite and Infinite Groups, 3. Subgroups, 4. Cyclic Groups, 5. Permutation Groups, 6. Isomorphisms of Groups, 7. Cosets and Lagrange's Theorem, 8. Normal Subgroups and Factor Groups, 9. Homomorphisms of Groups, 10. Rings and Sub Rings, 11. Integral Domains and Fields, 12. Ideals, Factor Rings and Types of Ideals, 13. Homomorphisms and Isomorphisms of Rings, 14. Rings of Polynomials, Practical Problems • Key to "A Textbook of B.Sc. Mathematics – Sem. – IV"

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N. Krishnamurthy, M. Sc., former Head of department of Mathematics, V.V. College, Hyderabad.
B.V.S.S. Sarma, M. Sc., former Senior Lecturer in Mathematics, V.S.R. & N.V.R. College, Tenali.
S. Anjaneya Sastry, M. A., former Head of Department of Mathematics, V.S.R. & N.V.R. College, Tenali
S. Ranganatham, M. Sc., M. Phil. Former Head of Department of Mathematics, Jawahar Bharathi Degree College, Kavali.
R. Bharavi Sharma, M. Sc., Ph. D., Asst. Professor of Mathematics and Nodal Officer, Kakatiya University, Warangal

## PHYSICS

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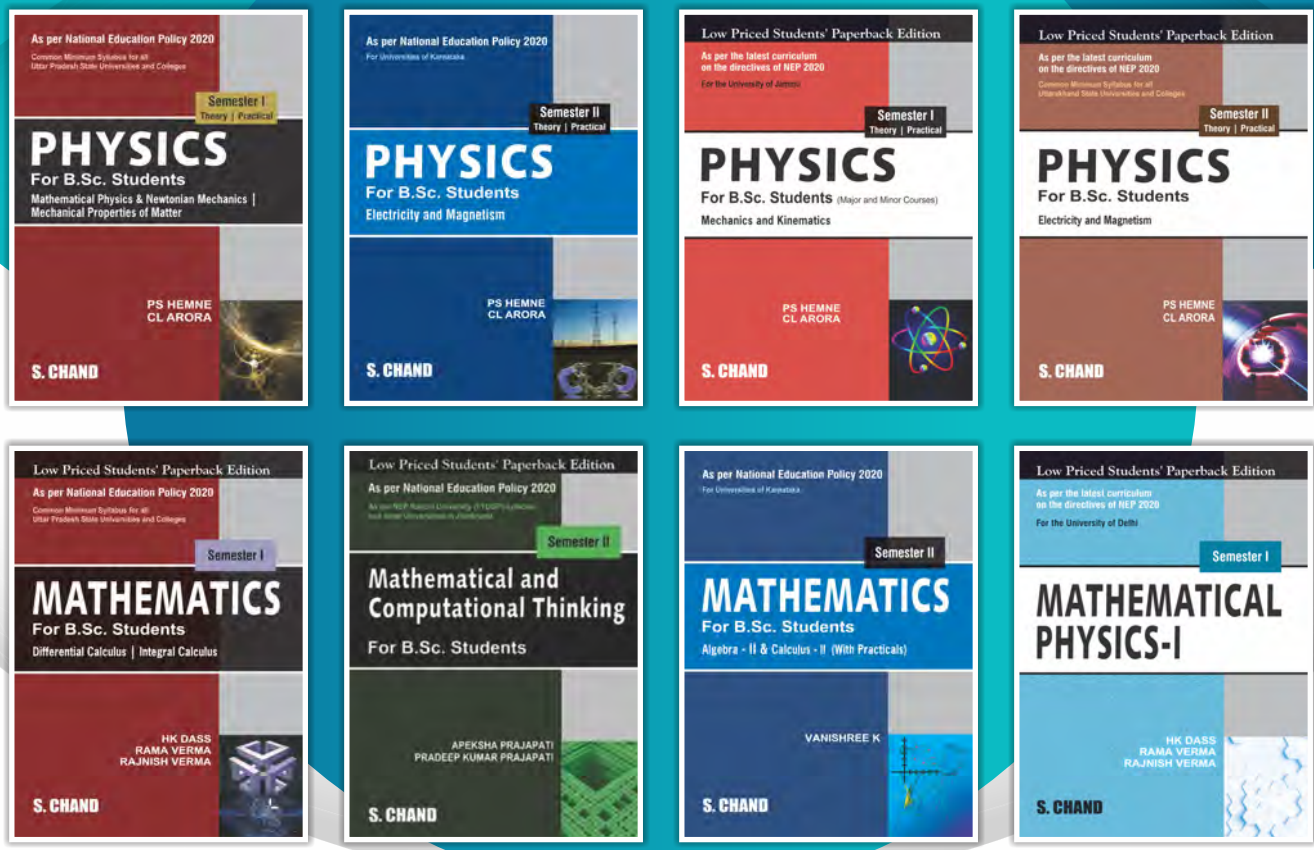
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