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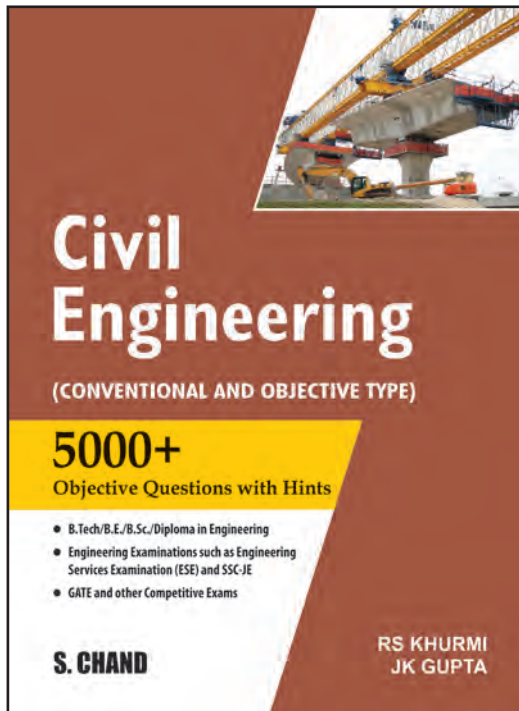2024

CATALOGUE

# CIVIL & MECHANICAL ENGINEERING

www.schandpublishing.com

# Contents

## Engineering & Technology

# 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
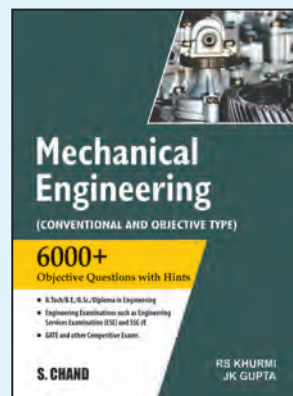
## Salient Features

• 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

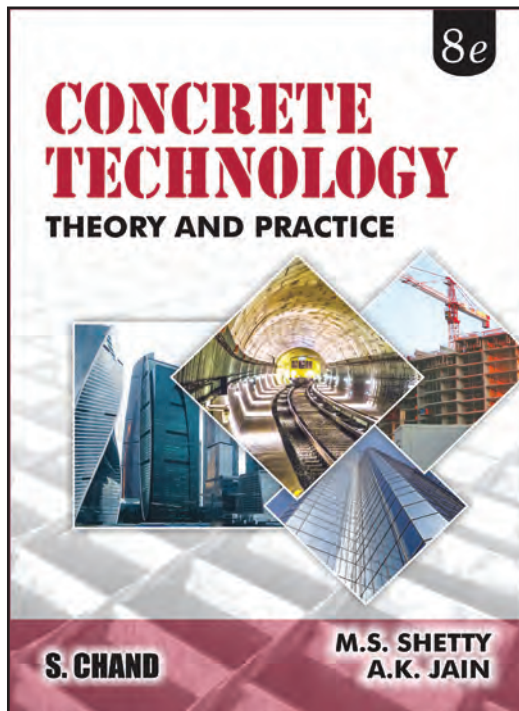## Objective Series for B.Tech/ B.E./B.Sc./ ESE & GATE Examinations

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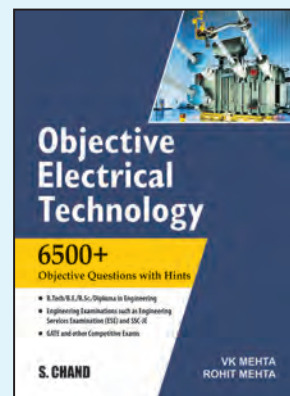
ISBN: 9789355014467 ₹ 895

ISBN: 9788121925716 ₹ 795

# 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

**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.
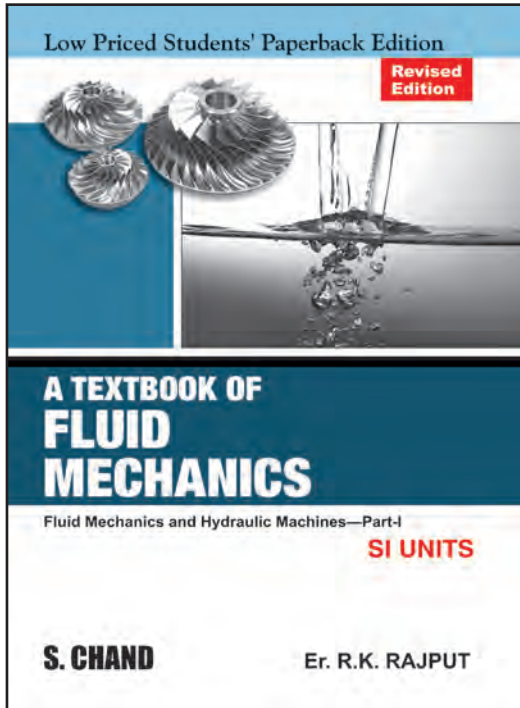
# A Textbook of Fluid Mechanics (LPSPE)

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

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

**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

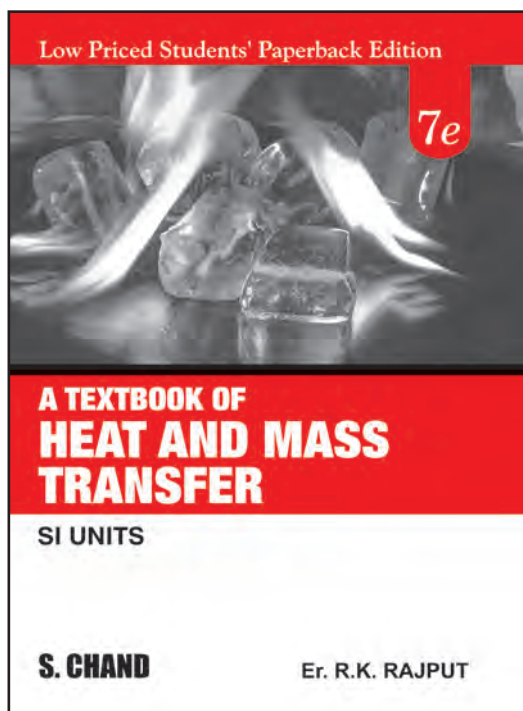- Introductory chapter explains all basic theories of the subject followed by 11 succinctly written chapters which encompass all basic concepts.
- Close to 950 examples, figures, tables and chapter-end highlights aid to the concepts explained.
- Close to 750 chapter-end questions, University Questions, 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

**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**
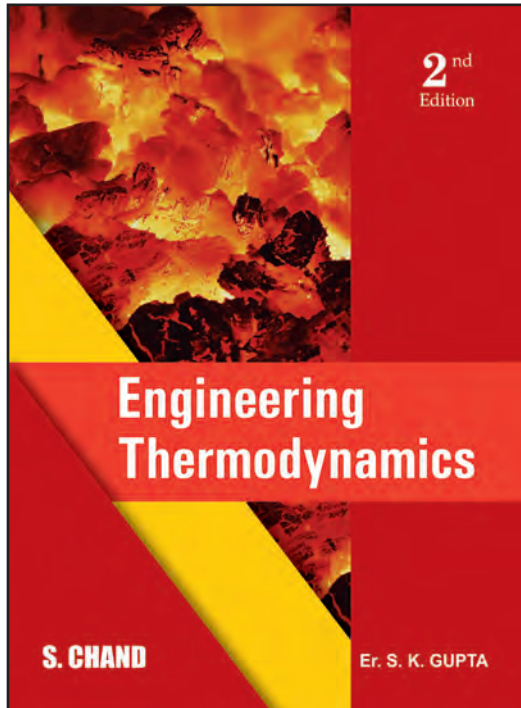
# Engineering Thermodynamics, 2e

## 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.**
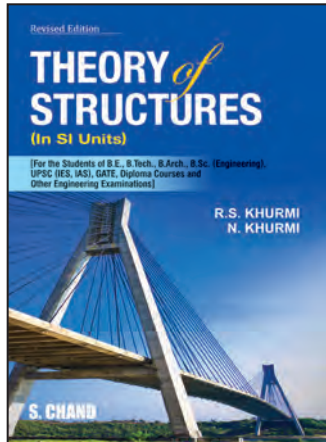  - Close to 1200 exercises, questions and objective type questions for better practice.
  - Notes placed within chapters highlighting important concepts.
- 14 New Chapters on the following topics:
  - Thermodynamic Relations (1 Chapter)
  - Fuels and Combustion (3 Chapters)
  - Refrigeration and Air-Conditioning (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*
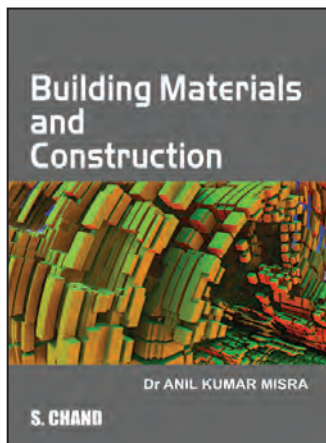
## Building Materials and Construction

### 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
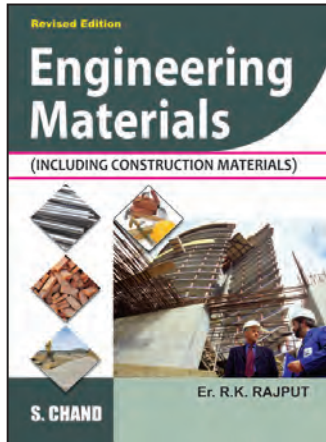
# Engineering Materials (Including Construction Materials) 4e

## 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.

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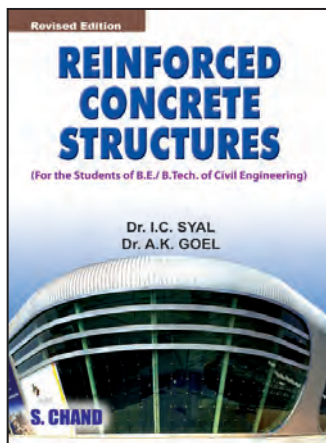
# Reinforced Concrete Structure, 4e

## 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.
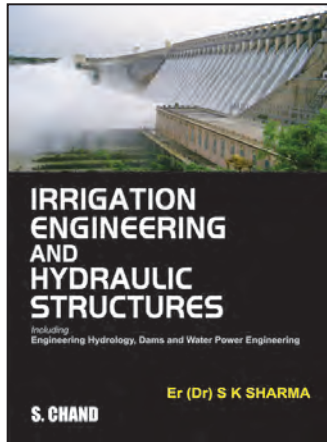
## Irrigation Engineering and Hydraulic Structures

### 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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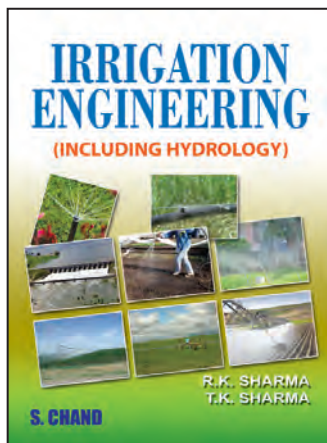
## Irrigation Engineering (Including Hydrology)

### 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.

**ISBN: 9788121921282 | Code: 1010B00240 | Price: ₹ 795 | Pages: 752 | Size: 6.75" X 9.5" (Paperback)**

### Contents

**Part-I: Irrigation Principles and Practices:** 1. Irrigation, 2. Irrigation Water Requirement and Crops, 3. Irrigation System, 4. Methods of Irrigation, 5. Unlined Channels, 6. Lined Canals, 7. Drainage Engineering, **Part-II: River Engineering:** 8. River Mechanics, 9. River Training, **Part-III: Canal Structures:** 10. Headworks, 11. Control Structures, 12. Cross Drainage Works, 13. Bridges and Culverts, 14. Canal Outlets, **Part-IV: Hydrology:** 15. Hydrology, **Part-V: Dam Engineering:** 16. Reservoirs and Dam Planning, 17. Earth and Rockfill Dams, 18. Irrigation Water Requirement and Crops, 19. Arch Buttress Dams, 20. Discharge Facilities, **Part-VI: Water Power Engineering:** 21. Water Power Engineering, **Part-VII: Irrigation Water Management:** Irrigation Water Management • *Appendix-I: Dam Safety • Appendix-II: Some Important Dams in India • Appendix-III: Some Typical Design Problems • Appendix-IV: Objective Type Question • Bibliography*

**R K Sharma** is Consultant, Water Resources.
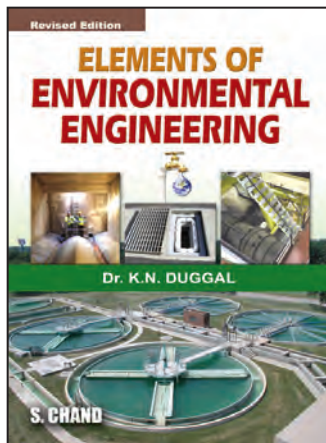
# Elements of Environmental Engineering, 3e

## 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.
*   Equivalent MKS units have been given in parenthesis and illustrated through solved examples to make reader more convenient with their applications.
*   300+ figures and tables aid to the understanding of and more than 350 chapter end questions aid to the practice of students.

**ISBN: 9788121915472  |  Code: 1010D00189  |  Price: ₹ 495  |  Pages: 472  |  Size: 6.5" X 9.25" (Paperback)**

### Contents

**Part-I: Water Supply:** 1. Introduction, 2. Quantity of Water, 3. Sources of Water Supply, 4. Intake Works and Transportation of Water, 5. Pumps and Pumping, 6. Quality of Water, 7. Treatment of Water, 8. Distribution System, **Part-II: Sewerage and Sewage Treatment:** 1. Introduction, 2. Underground Drainage and Sewerage, 3. Surface and Storm Water Drainage, 4. Sewer Appurtenance and Sewage Pumps, 5. Microbiology of Sewage, 6. Sewage Disposal and Treatment, 7. Sewage Treatment Methods, **Part-III:** 1. Water Supply and Drainage of Buildings, **Part-IV:** 1. Environmental Sanitation, A. Refuse and Solid Waste Management, B. Ventilation and Air Conditioning, C. Water and Industrial Pollution, D. Air Pollution, E. Noise Pollution, F. Soil and Agricultural Pollution, G. Thermal Pollution, H. Radioactive Pollution, I. Malaria Incidental to Engineering, J. Bioenergy and Biogas Generation • *Bibliography* • *Appendix-I: Metric System of Weights and Measurement* • *Appendix-II: Conversion Factors Used* • *Appendix-III: Origin, Characteristics, Effects and Treatment of Major Industrial Wastes* • *Index*

**K N Duggal** is Ph.D., C. Eng. (I) FIE.

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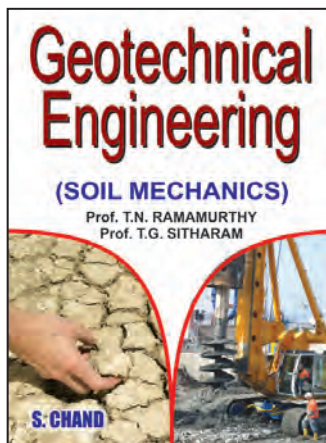
# Geotechnical Engineering (Soil Mechanics) 4e

## 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.
*   The "Introduction" chapter lays out all basic definitions required in the subject of Soil Mechanics.
*   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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### Contents

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**T N Ramamurthy** is Professor, Department of Civil Engineering, RV College of Engineering, Bangalore.

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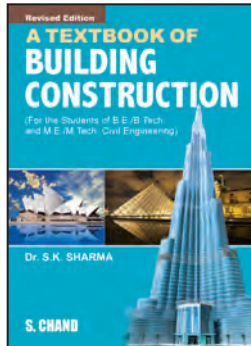
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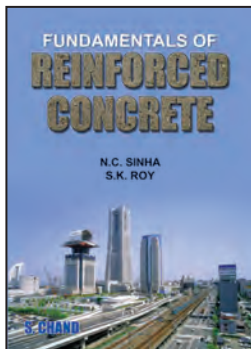
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**N .C. Sinha** is M.S. (Stanford), Ph.D. (Texas), F.I.E., (India) and a Chartered Engineer. He is former Professor and Head Department of Civil Engineering Bengal Engineering College, Howrah.

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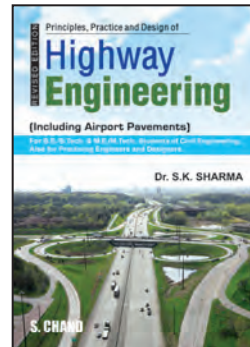
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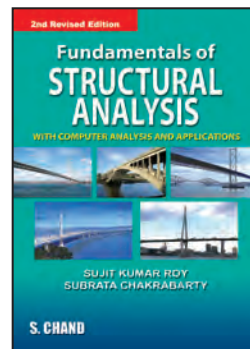
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**Sujit Kumar Roy** is Ph.D. (IIT, Kharagpur), MIE (India) Assistant Professor of Civil Engineering.

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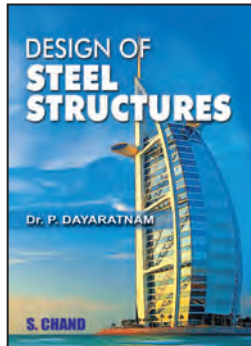
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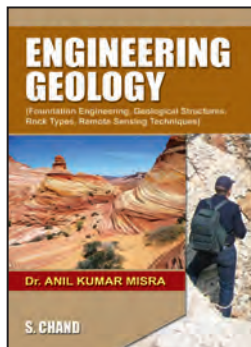
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**Anil Kumar Misra,** Ph. D., is Associate Professor in Department of Civil and Environmental Engineering at The NorthCap University (formerly ITM University Gurugram), Gurugram, Haryana.
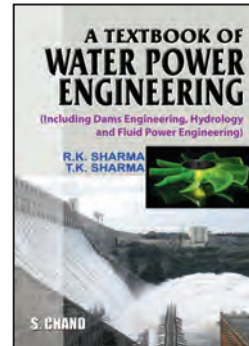
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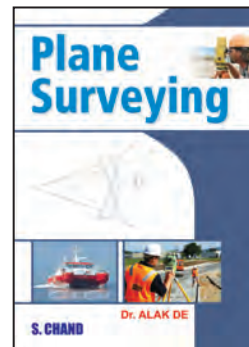
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**Alak De** is Member National Safety Council, Professor of Civil Engineering and Head of Environmental Engineering Division, Jadavpur University.
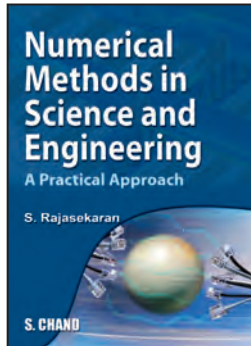
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**S Rajasekaran** is Ph.D. (Canada) D.Sc. (Civil Engg.), DSS, FIE, FIV, M.ASCE, MCSI, MISTE, FNAE, Professor of Infrastructural Engineering, Department of Civil Engineering, PSG College of Technology, Coimbatore.

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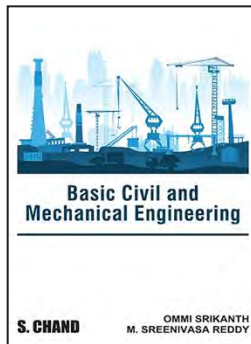
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**M. Sreenivasa Reddy** B.E., M.Tech., PhD. Principal, Aditya Engineering College Surampalem, Andhra Pradesh
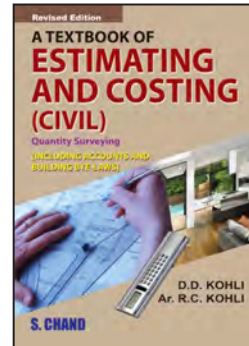
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**D.D. Kohli** is formerly of PWD (B & R) and Thapar Polytechnic, Patiala.

**R.C. Kohli** is Former HOD, Thapar Polytechnic College, Patiala. Currently, he is HOD, Civil, E–Max Group of Institutes (Polytechnic), Ambala.
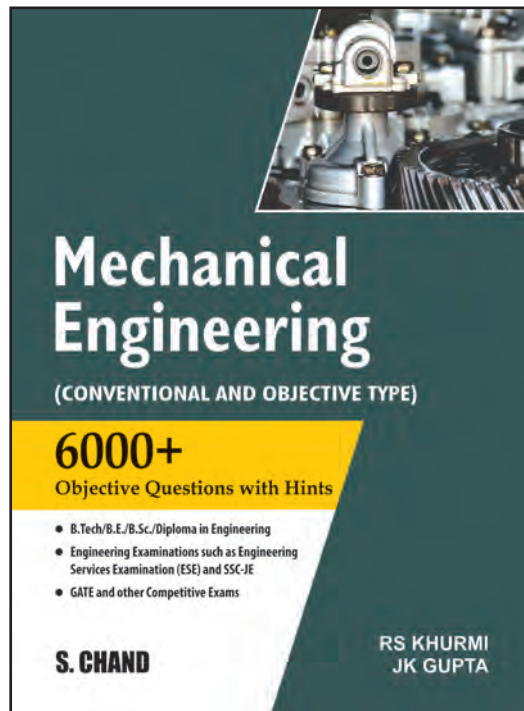
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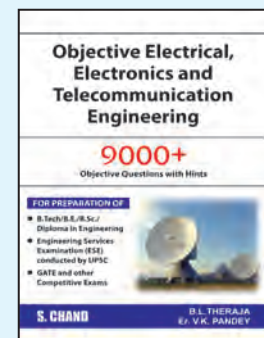17. Automobile Engineering
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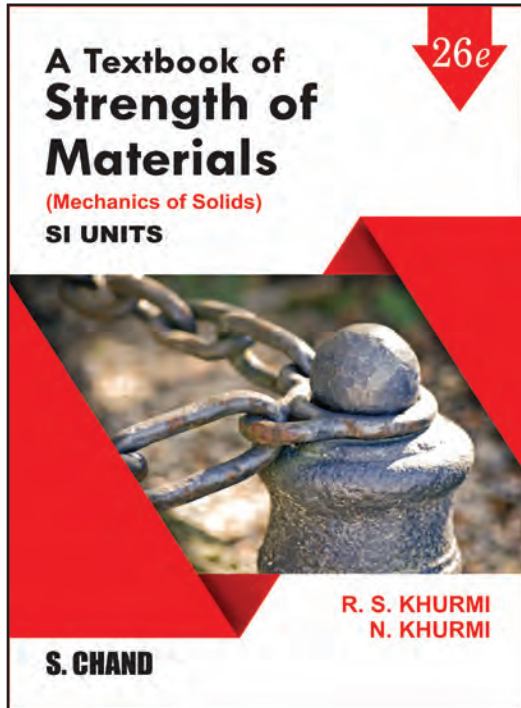## Objective Series for B.Tech/ B.E./B.Sc./ ESE & GATE Examinations

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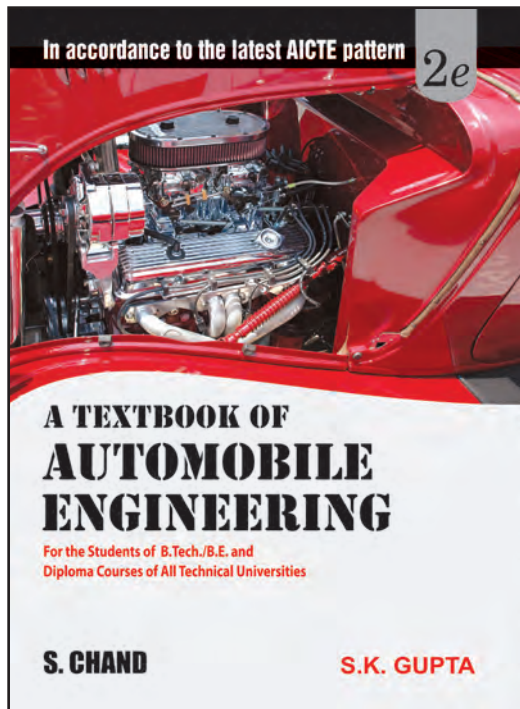
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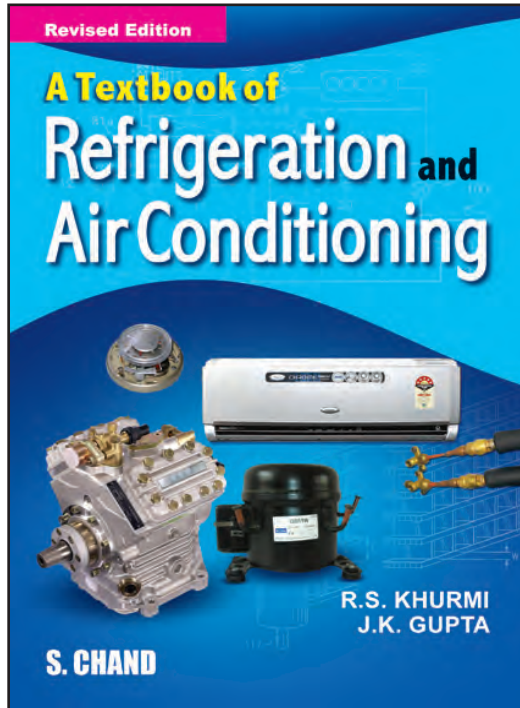
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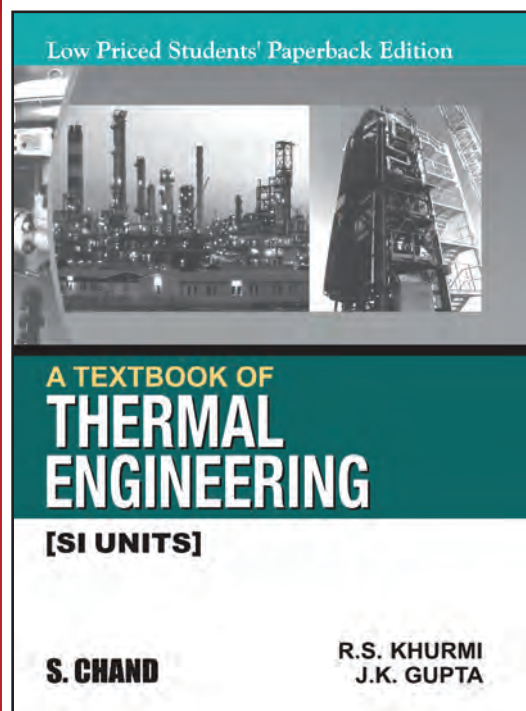
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R.S. KHURMI
J.K. GUPTA

# 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.
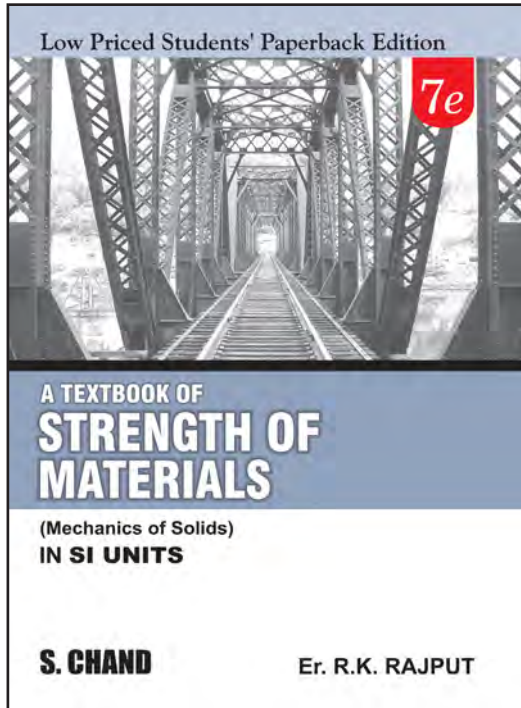
### Salient Features

- 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

# 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

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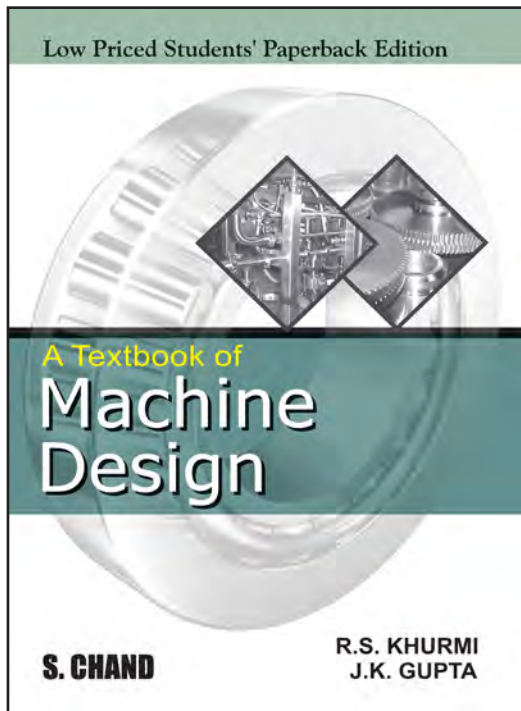
# A Textbook of Machine Design, 34e (LPSPE)

## 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

**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

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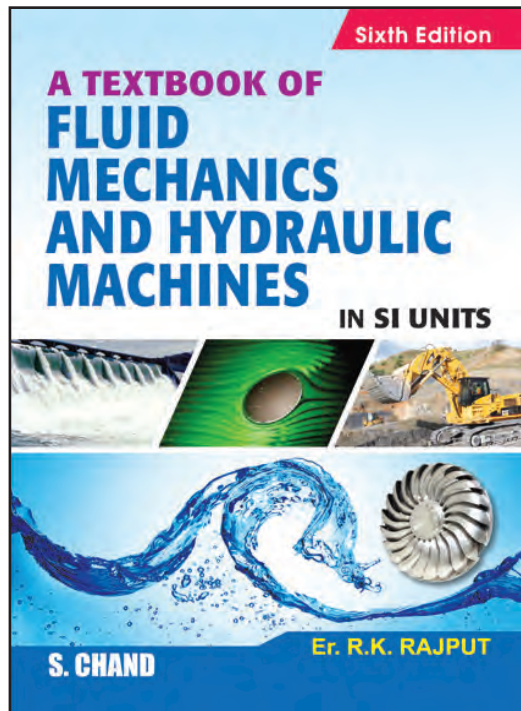
# A Textbook of Fluid Mechanics and Hydraulic Machines (In SI Units), 6e

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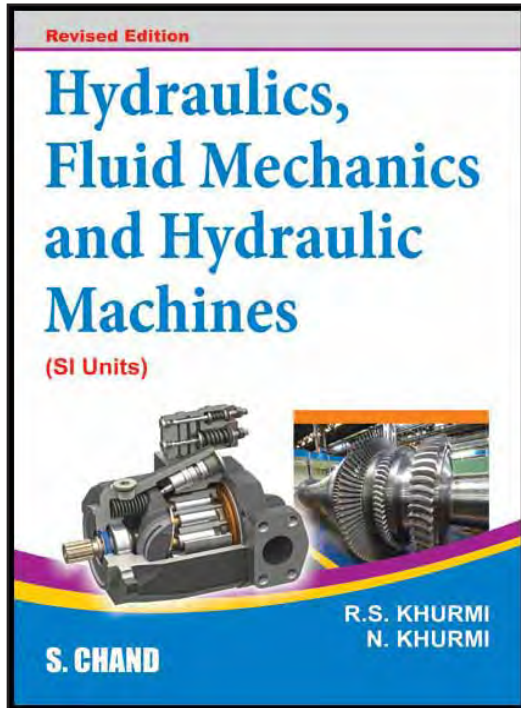
# Hydraulics, Fluid Mechanics and Hydraulic Machines (SI Inits) 20e

## 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

# 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

**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

**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.
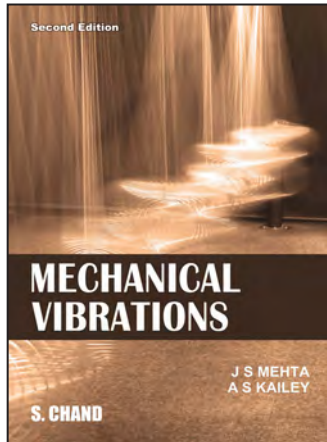
## Mechanical Vibrations, 2e

### 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.

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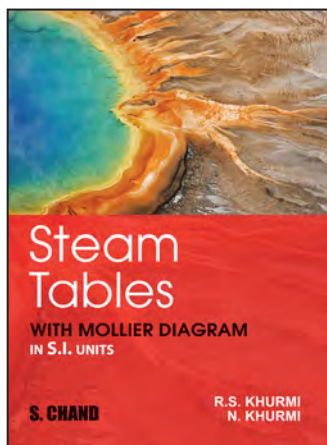
## Steam Tables
## With Mollier Diagrams in S.I. Units

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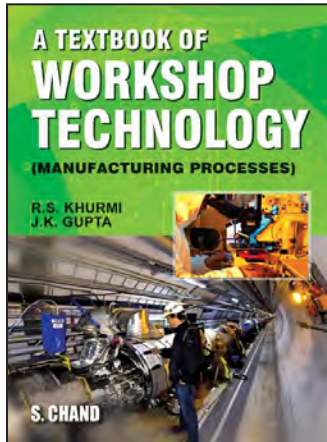
## A Textbook of Workshop Technology (Manufacturing Processes) 16e

### 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*

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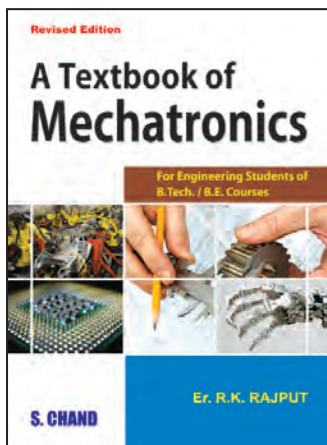
## A Textbook of Mechatronics, 4e

### 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.
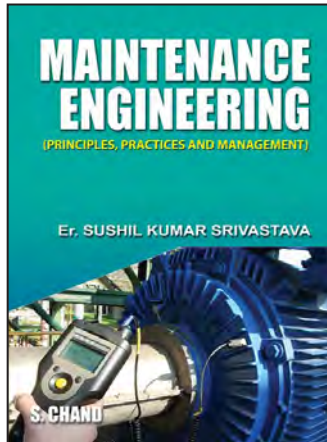
## Maintenance Engineering
## (Principles, Practices and Management)

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).
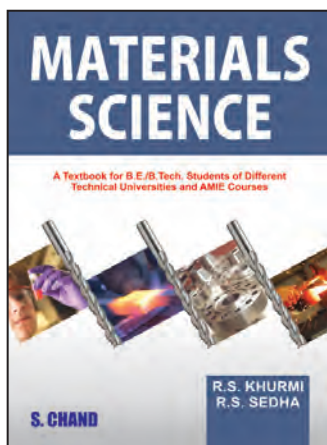
## Materials Science, 5e

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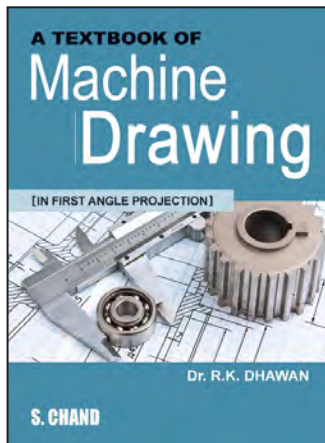
# A Textbook of Machine Drawing (In First Angle Projection), 2e

## R.K. Dhawan

**Multicolour Edition**

### 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*

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

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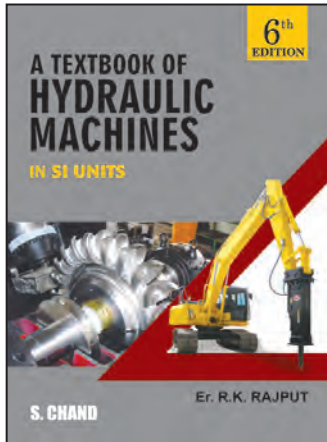
## A Textbook of Hydraulic Machines (SI Units), 6e

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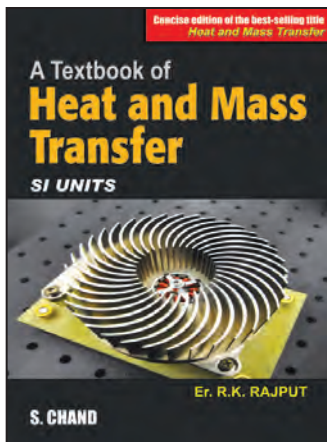
## A Textbook of Heat and Mass Transfer (SI Units), Concise Edition

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.
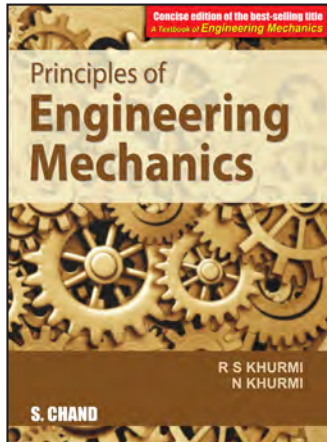
## Principles of Engineering Mechanics, Concise Edition

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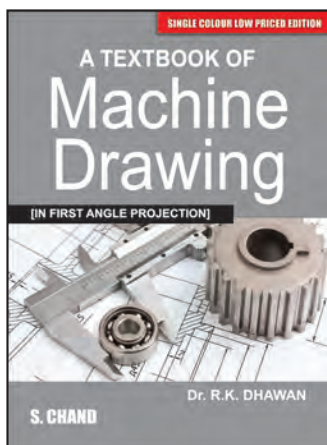
## A Textbook of Machine Drawing (In First Angle Projection)

### 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).
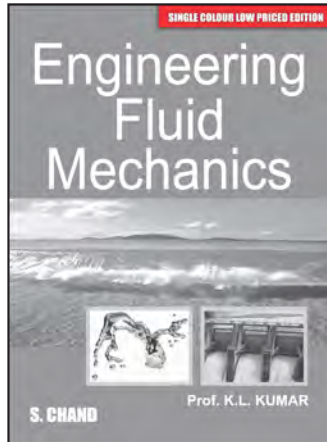
## Engineering Fluid Mechanics

### 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.

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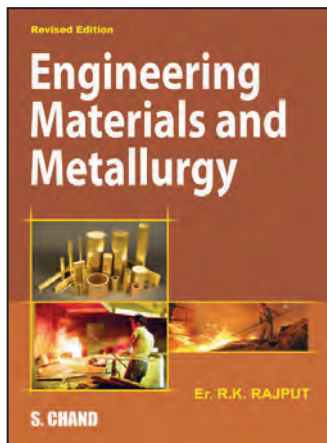
## Engineering Materials and Metallurgy, 2e

### 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 examina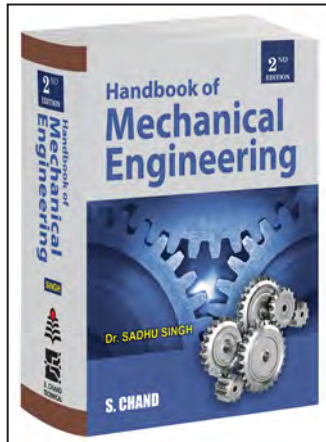tion like IES/IFS/ GATE State Services and competitive tests conducted by public and private sector organization for selecting apprentice engineers.

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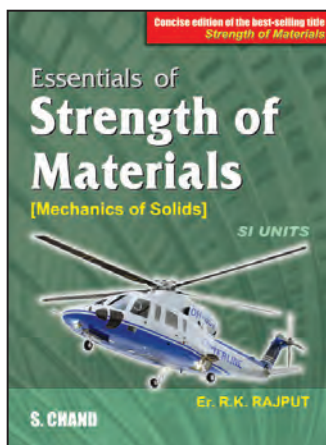
# Essentials of Strength of Materials, Concise Edition (Mechanics of Solid)

## 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.
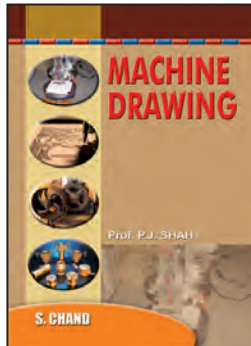
## Machine Drawing

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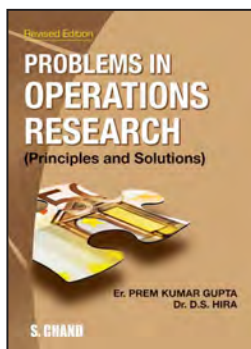
## Problems in Operations Research (Principles and Solutions) 3e

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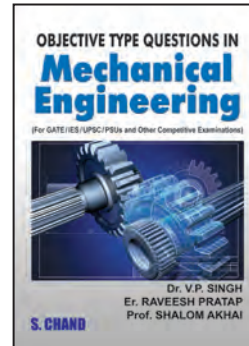
**Pream Kumar Gupta** is Former Assistant Professor, PEC Institute of Engineering and Technology, Chandigarh.

**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.
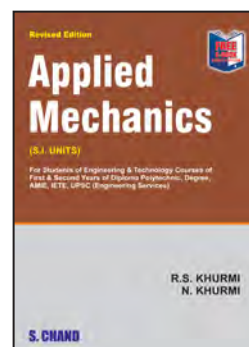
## Applied Mechanics (SI Units)

R S Khurmi & N Khurmi

ISBN: 9788121916431
Code: 1010B00191
Price: ₹ 525  |  Pages: 408
Size: 6.5" X 9.25" (Paperback)

### Contents

1. Introduction, **Part-1: Statics-Force System:** 2. Forces-Composition of Forces, Resolution of a Force, Laws of Forces, 3. Moments and Their Applications (Including Varignon's Principle), 4. Parallel Forces and Couples, 5. Equilibrium of Forces, Free Body Diagrams, Lami's Theorem and Equations of Static Equilibrium, 6. Support Reactions, **Part-2 Centroid and Moment of Inertia:** 7. Centre of Gravity and Centroid, 8. Moment of Inertia, **Part-3: Friction:** 9. Principles of Friction, 10. Application of Friction (Ladder, Wedge and Screw Friction), **Part-4: Machines:** 11. Principles of Lifting Machines, 12. Simple Lifting Machines, **Part-5: Dynamic (Kinematics and Kinetics) Kinematics of Particle:** 13. Linear Motion Under Uniform Acceleration (Equations of Rectilinear Motion), 14. Projectile Motion (Curvilinear Motion-I), **Part-6: Kinematics of Rigid Body:** 15. Motion of Rotation, **Part-7: Kinetics of Particle:** 16. Motion along a Circular Path (Curvilinear Motion-II) (Centripetal & Centrifugal Force & Acceleration), 17. Laws of Motion, Force, D Alembert's Principle, Dynamic Equilibrium, Momentum and Impulse, 18. Impact due to Collision of Elastic Bodies and Law of Conservation of Momentum, 19. Work, Power, Energy and Law of Conservation of Energy, **Part-8: Trusses:** 20. Analysis of Perfect Frames (Analytical Method) • *Index*
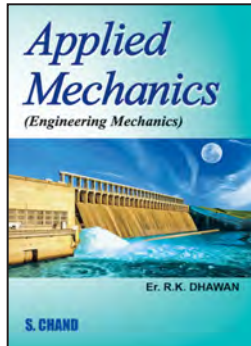
## Applied Mechanics (Engineering Mechanics) 1e

### R.K. Dhawan

**Multicolour Edition**

**ISBN: 9788121935920**
**Code: 1010000462**
**Price: ₹ 295  |  Pages: 240**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Basic Concepts, 2. Laws of Forces, 3. Moments, 4. Friction, 5. Centre of Gravity, 6. Simple Machines, 7. Moments of Inertia • *Laboratory Experiments – Eight • Model Test Papers – Two*

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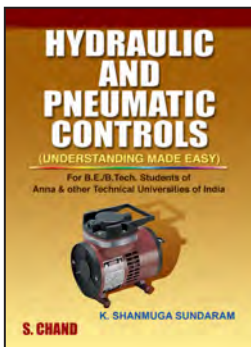
## Hydraulics and Pneumatics Controls

### K. Shanmuga Sundaram

**Multicolour Edition**

**ISBN: 9788121926355**
**Code: 1010A00306**
**Price: ₹ 295  |  Pages: 240**
**Size: 6.75" X 9.5" (Paperback)**

### Contents

1. Fluid Power Fundamentals, 2. Pumps, 3. Actuators, 4. Pressure Control, 5. Direction Control Valves, 6. Flow Control Valves, 7. Fluid Conditioners, 8. Accessory Components, 9. Hydraulic Symbols—ANSI Symbols, 10. Hydraulic Circuits, 11. Design of Hydraulic Circuits,12. Fundamentals of Pneumatics, 13. Pneumatic System Components, 14. Pneumatic Circuits, 15. Combination Circuits, 16. Logic Controls in Fluid Power Systems, 17. Maintenance and Troubleshooting in Fluid Power Systems • *Appendix • Question Papers*
**K Shanmuga Sundaram** is Lecturer, Department of Mechanical Engineering, College of Engineering, Guindy, Anna University, Chennai.

## Non-Conventional Energy Sources and Utilization (Energy Engineering)

### R.K. Rajput

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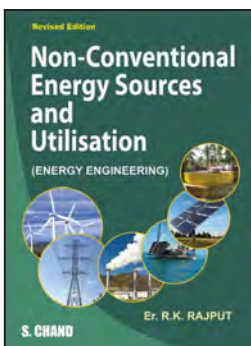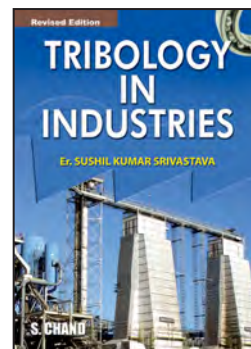**Code: 1010B00519**
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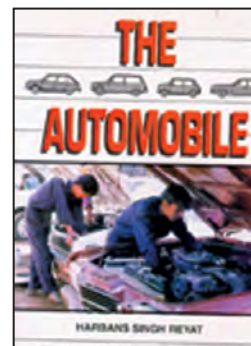
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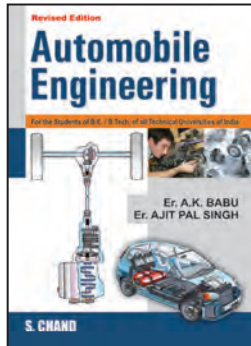
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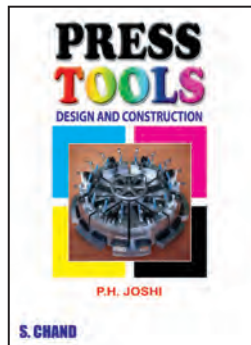
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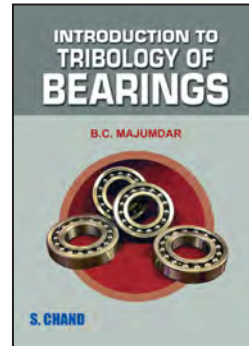
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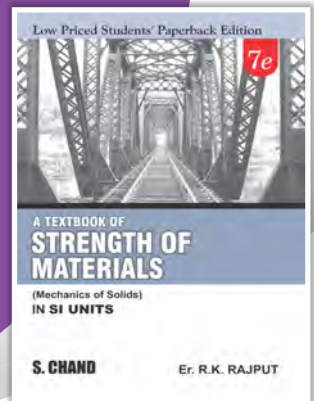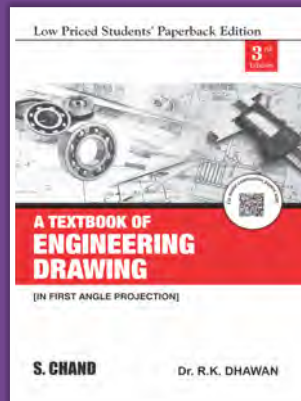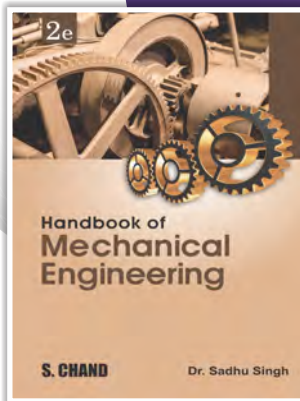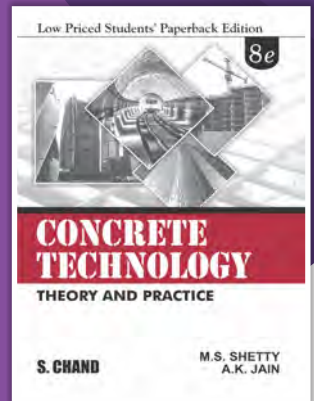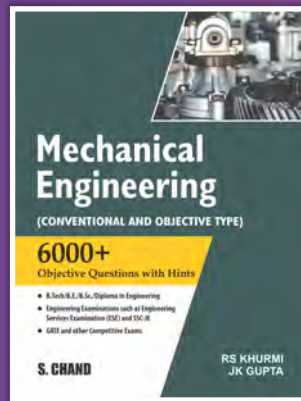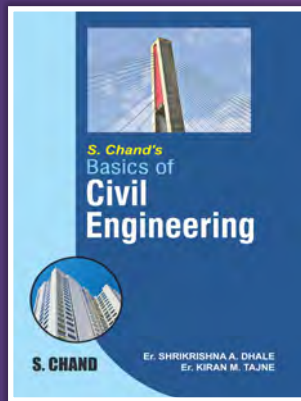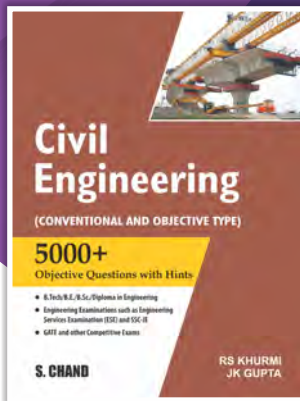#### ASSAM, MEGHALAYA, NAGALAND, MIZORAM ARUNACHAL PRADESH, MANIPUR & TRIPURA

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