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ENGINEERING & TECHNOLOGY

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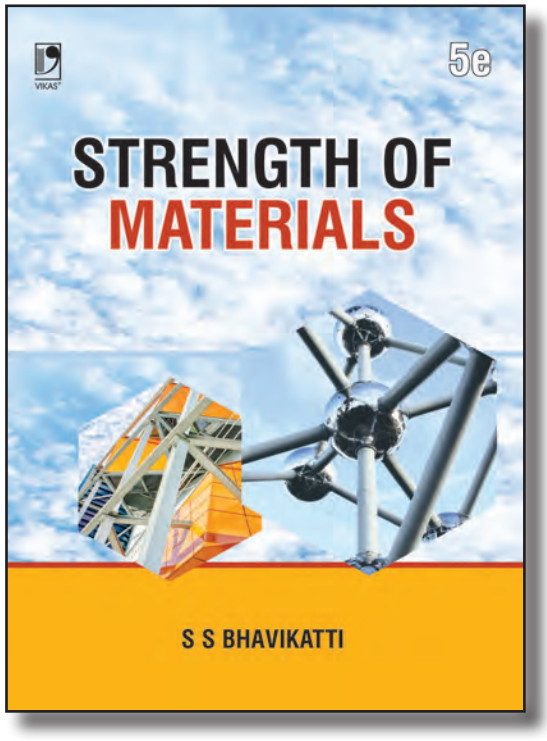
CONTENTS

ENGINEERING & TECHNOLOGY



Strength of Materials, 5e

S S Bhavikatti

Instructor's Resource available

About the Book

Over the last 25 years, this book has become a students' companion due to its comprehensive coverage, student-friendly approach and all-steps-explained style. This has made it the best-selling book among all the books on the subject. The author's zeal of presenting the text in line with the syllabi has resulted in the edition at hand, which continues its run with all its salient features as earlier. Thus, it takes care of all the syllabi on the subject and fully satisfies the needs of engineering students

A core textbook for civil engineering students. Also useful for the students of mechanical, chemical and mining engineering.

New in this Edition

1. Two new chapters are included:

a) Introduction to Plastic Analysis (Chapter 13) and b) Moment of Inertia, as Appendix.

2. Topics related to simple supported beam and overhanging beam are included in Chapter 5, Shear Force and Bending Moment in Statically Determinate Beams.
3. Topics such as Torsion of Hollow-thin-walled Shafts and Shafts Subjected to Combined Bending and Torsion are included in Chapter 10, Torsion.
4. Review Questions are added in all the chapters

Key Features

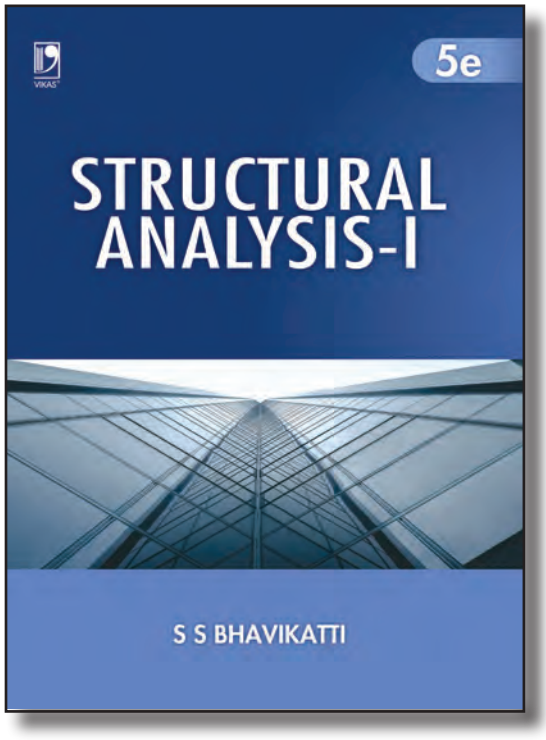
- Use of SI units
- Summary of important concepts and formulae at the end of each chapter
- A large number of solved problems presented systematically
- A large number of exercise problems to test the students' ability
- Simple and clear explanation of concepts and the underlying theory in each chapter
- Generous use of diagrams (more than 550) for better understanding

Market: Primarily for BE/BTech. Also useful for ME/MTech.

ISBN: 9789354531972 | Price: ₹ 595 | Pages: 560 | Size: 6.75" X 9.5" (Paperback)

Contents

S S Bhavikatti is Emeritus Professor, BVB College of Engineering & Technology, Hubli. He is a former Dean of NITK, Surathkal.



Structural Analysis-I, 5e

S S Bhavikatti

About the Book

Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes - Structural Analysis I and II.

Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflections, loads and influence lines, etc.

Salient Features

- Systematic explanation of concepts and underlying theory in each chapter
- Numerous solved problems presented methodically
- Solved university examination questions
- A set of exercises to check the student's understanding of concepts

Market: Primary Market: B.Tech, BE Secondary Market: Diploma

New in The 5th Edition

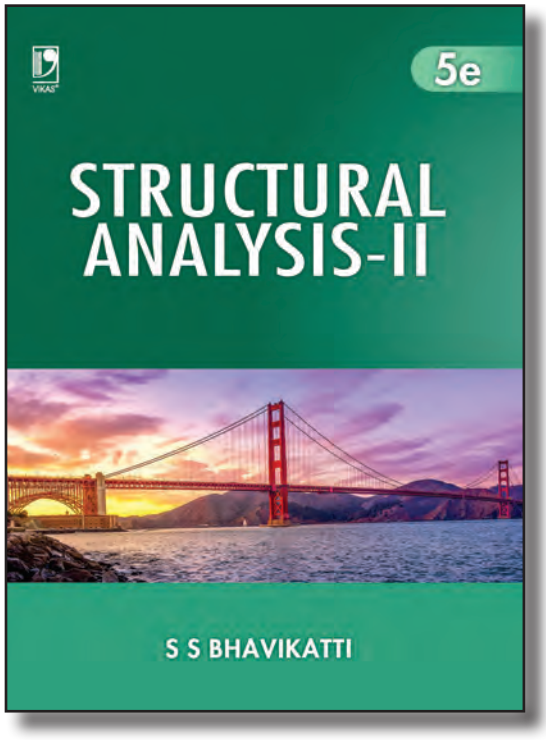
- Inclusion of the following three new chapters:
- Ch 2, Pin-jointed plane frames
- Ch 3, Shear Force and Bending Moment in Statically Determinate Beams
- Ch 8, Deflection of Beams by Double Integration Method

Primary Market: B.Tech, BE Secondary Market: Diploma

ISBN: 9788194751984 | Price: ₹ 595 | Pages: 568 | Size: 6.75" X 9.5" (Paperback)

Contents

S S Bhavikatti is Emeritus Professor, BVB College of Engineering & Technology, Hubli. He is a former Dean of NITK, Surathkal, and SDM College of Engineering & Technology, Dharwad. For some time, he has also been Principal, RYM Engineering College, Bellary.
Prof Bhavikatti holds an ME degree in Structural Engineering from the University of Roorkee and a PhD from IIT-Delhi.



Structural Analysis-II, 5e

S S Bhavikatti

About the Book

Structural analysis, or the 'theory of structures', is an important subject for civil engineering students who are required to analyse and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics, such as matrix method and plastic analysis, are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes: Structural Analysis-I and Structural Analysis-II.

Structural Analysis-II not only deals with the in-depth analysis of indeterminate structures but also special topics, such as curved beams and unsymmetrical bending. The book provides an introduction to advanced methods of analysis, namely, matrix method and plastic analysis.

New in this Edition

- Thoroughly reworked computations
- Redrawing of the diagrams for better clarity

Key Features

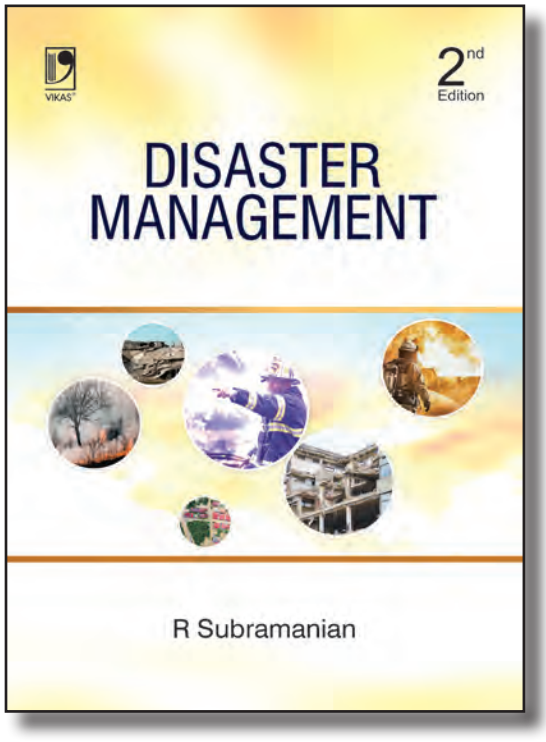
- Systematic explanation of concepts and underlying theory in each chapter
- Methodical presentation of numerous solved problems
- Solved university examination questions in most chapters
- A set of exercises for practice

Market: Primary Market: B.Tech, BE Secondary Market: Diploma

ISBN: 9789390470471 | Price: ₹ 590 | Pages: 440 | Size: 6.75" X 9.5" (Paperback)

Contents

S S Bhavikatti is Emeritus Professor, BVB College of Engineering & Technology, Hubli. He is a former Dean of NITK, Surathkal, and SDM College of Engineering & Technology, Dharwad. For some time, he has also been Principal, RYM Engineering College, Bellary.
Prof Bhavikatti holds an ME degree in Structural Engineering from the University of Roorkee and a PhD from IIT-Delhi.



Disaster Management 2e

R Subramanian

About the Book

Disaster Management, 2e is an intended textbook for students pursuing a first or an intermediate course on the subject in any undergraduate programme, especially engineering courses such as civil, structural, geotechnical engineering and other specialized courses on the subject. The latest AICTE and the earlier UGC model curriculums have been extensively consulted to design the contents of the book. The UPSC aspirants will find the book useful to prepare short notes on many topics and in answering questions on disasters and disaster management.

The main objective of the book is to create awareness about and understanding of disasters and disaster mitigation measures. It deals with the subject in a structured manner. Starting with an introductory chapter, the book goes to classification of disasters, separate chapters on natural and man-made (anthropogenic) disasters, basic management concepts, four-cycle disaster management, organizational structures in India and other countries, NGOs, ethical issues and case studies.

It follows the 'assurance of learning' model by enumerating the learning objectives in every chapter, followed by detailed exposition of each objective and ends with a rich suite of assessment questions.

Market: Primarily for Students of Civil, Structural, Geotechnical & Mechanical Engineering and all UG departments. Diploma in Disaster Management. Also useful for Disaster Management Professionals, Policy Makers

New In The Second Edition

1. New chapter covering pandemics (COVID-19) and environmental disasters. 2. Recent disasters updated throughout the chapters.

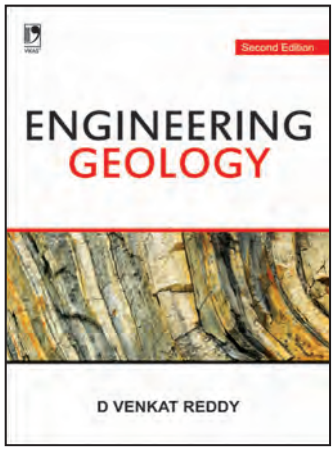
Key Features

- Extensive coverage of both natural and man-made disasters. Separate chapter on case studies of both types of disasters.
- Provides blueprints of not only rescue & relief but also how to prevent disasters, especially with reference to man-made disasters.
- Boxed exhibits of particular aspects of past disasters have been provided alongside the text as a learning aid.
- Important codes have been referenced appropriately – both national and international -- including building design codes of some countries, ILO's code, Codes of Practice by BIS and National Building Code, and Ethical Codes.
- Disaster management agencies have been discussed thoroughly, including the need for international cooperation.
- Current status of disaster management in India and national organization has been included appropriately.
- Vulnerability maps of India and practical projects for students have been included in appendices.

ISBN: 9789356742635 | Price: ₹ 425 | Pages: 376 | Size: 6.75" X 9.5" (Paperback)

CONTENTS

R Subramanian, retired as Professor and Head of Department of Civil Engineering at National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh, after serving the organization for 36 years. He holds a bachelor's degree in Civil Engineering from Kerala University and a master's in Structural Engineering from Roorkee University (now IIT-Roorkee). He has taught Civil Engineering subjects to both undergraduate and postgraduate students. Pursuing his passion for teaching he presently works as a teacher trainer.



Engineering Geology, 2e

D V Reddy

About the Book

This book is designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced/ applied geology and earth sciences.

Engineering Geology is a multidisciplinary subject that interacts with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS) and environmental geology. This book is unique in the Indian market that caters to the students of all these subjects. Also, serves as a reference for practicing civil engineers, geotechnical engineers, marine engineers, geologists and mining engineers.

Salient Features

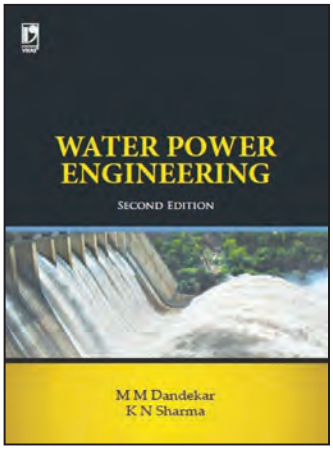
- The concept of watershed and the depiction of watershed atlas of India
- Latest findings by the Indian Bureau of Mines
- Recent developments in coastal engineering and innovative structures
- New types of protective structures to guard against tsunamis
- Role of geology in building smart cities
- Environmental legislation in India

ISBN: 9789325992351 | Price: ₹ 675 | Pages: 628 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Introduction to Geology and its Branches, 2. Interior of the Earth, 3. Engineering Geology, 4. Crystallography and Mineralogy, 5. Petrology, 6. Structural Geology, 7. Weathering of Rocks, 8. Geological Work on Soils, 9. Geological Work of Rivers, 10. Geological Work of Oceans and Coastal Zone Management, 11. Groundwater, 12. Earthquakes, Seismic Hazards and Natural Disasters, 13. Tsunamis and Coastal Zone Management, 14. Site Investigation Techniques for Civil Engineering Projects, 15. Remote Sensing and Geographic Information System (GIS), 16. Investigations for Dams and Reservoirs, 17. Tunnels and Underground Excavations, 18. Landslides and Mass Movement, 19. Buildings and Smart Cities, 20. Bridges, 21. Stratigraphy of India: Economic and Engineering Significance, 22. Environmental Geology and Geotechnology

D V Reddy is an active researcher and a consultant of international repute in the field of geotechnology. He retired as Professor and HOD in the Department of Civil Engineering, National Institute of Technology Karnataka (NITK).



Water Power Engineering, 2e

M M Dandekar & K N Sharma

About the Book

The book covers the entire scope of the subject in a lucid manner starting from the fundamentals of hydrology, to various hydraulic and civil structures to electrical and mechanical equipment as required for hydro-power projects. Recent innovations and developments in some areas like wave power, and new technologies in hydraulic structures, like the P-K weirs, fuse gates, stepped spillways, CFRD, RCC, etc., find place suitably in the book.

The book is meant for undergraduate and postgraduate students of civil and electrical engineering and professionals.

New in This Edition

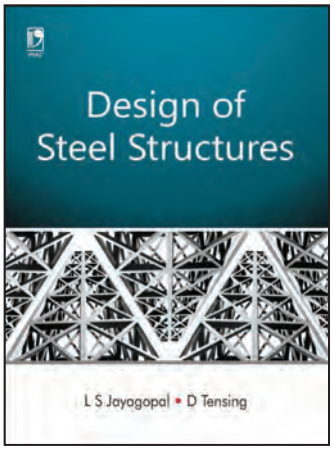
- Two new chapters on 'small-scale hydro, and 'environmental impact of hydro and multi-purpose projects
  • New types of dams, sedimentation of reservoirs, rehabilitation of dams • Spillway design floods, new types of spillways • Mathematical models for rainfall-runoff analysis, including contribution of snowfall • Structural components of tidal plants, and new types of turbines • Wave power exploitation
- Detailed study on Sardar Sarovar and Tehri projects

ISBN: 9789325968981 | Price: ₹ 695 | Pages: 624 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Extracting Energy from Water, 2. Elementary Hydrology, 3. Precipitation, 4. Runoff and Stream Flow, 5. Electrical Load on Hydro-turbines, 6. Low and High Head Plants, 7. Pumped Storage Power Plants, 8. Dams, 9. Spillways, 10. Penstocks and Accessories, 11. Water Hammer and Surges, 12. Intakes, Canals and Tunnels, 13. Turbines, 14. Electrical and Mechanical Equipment, 15. Planning of Powerhouses, 16. Hydro-power From Oceans, 17. Small-scale Hydro, 18. Environmental Impact of Hydel and Multi-purpose Projects, 19. Some Typical Projects • Appendices • Bibliography • Index

M M Dandekar was Professor and Head of Civil Engineering Department at Malaviya Regional Engineering College (now Malaviya National Institute of Technology), Jaipur, Rajasthan.



Design of Steel Structures

L S Jayagopal & D Tensing

About the Book

First course for the learners of steel structural design at UG level, this book is based on limit state design as per the Indian Code of Practice – General construction in steel – IS 800-2007. It explains theoretical concepts which form the basis of codal provisions.

Emphasis lies on principal axes based compression members, peripheral load distribution for base plates, limit state design of base plate bearing column with moment, unsymmetrically loaded beam design, tension field web design in plate girders, section and member design for bi-axially loaded beam columns which are unique to the book.

Practical insight provided in chapters of applied design.

Key Features

- Splitting of design problem into basic steps
- Inclusion of simplified design rules which will help the practicing engineers
- Examples under each chapter to illustrate the concepts discussed.

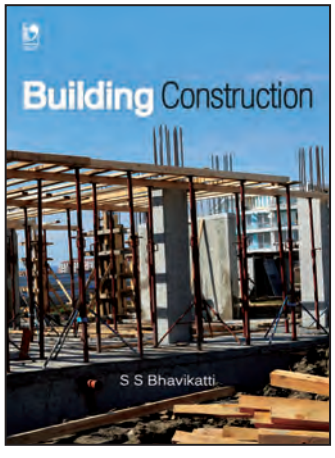
ISBN: 9789325984288 | Price: ₹ 480 | Pages: 476 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Structural Design, 2. Tension Members, 3. Welded Connections, 4. Bolted Connections, 5. Compression Members, 6. Column Base, 7. Beams, 8. Laterally Unrestrained Beams, 9. Plate Girders, 10. Industrial Roof Structure, 11. Design of Members Under Combined Forces, 11. Gantry Girders and Columns • Tables

L S Jayagopal, Managing Director of structural design firm Mithran Structures (P) Limited.

D Tensing, Professor and Director of School of Civil Engineering and has taught Design of Steel Structures for more than 20 years to the Undergraduate students and Post graduate students.



Building Construction

S S Bhavikatti

About the Book

This Building Construction covers the entire process of building construction in detail, from the stage of planning and foundation building to the finishing stages like plastering, painting, electricity supply and woodwork. Each of the basic components of a building are covered separately, including doors, windows, floors, roof, walls, partitions, as are the basic finishing works like plumbing, damp-proofing, ventilation, air conditioning and so on. Essential features of construction like acoustics, fire-resistance and earthquake-resistant design are also covered. In keeping with contemporary needs, the book also inlcudes a chapter on the environmental impact of a building and how to make it green.

The text, presented in simple, precise and reader-friendly language, is amply supported by figures and tables. Together with its companion volume, Building Materials, the book will meet the academic requirements of degree, as well as diploma courses in civil engineering and architecture.

Salient Features

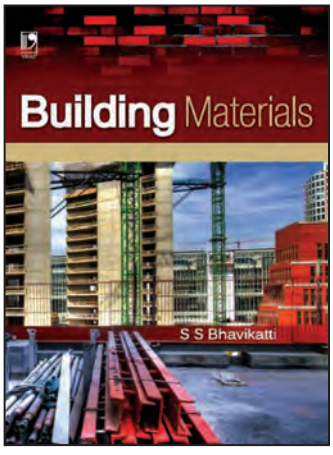
For degree and diploma students of civil engineering and architecture, this book covers the entire process of building construction in detail, from the stage of planning and foundation to the finishing stages. The basic components of a building, the basic finishing works like plumbing, damp-proofing, air conditioning etc., as well as features like acoustics, fire-resistance and earthquake-resistant design as also the environmental impact are all covered appropriately.

ISBN: 9789325960794 | Price: ₹ 395 | Pages: 368 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Introduction, 2. Building Planning, 3. Foundations, 4. Stone Masonry, 5. Brick Masonry, 6. Concrete Block Masonry and Composite Masonry, 7. Partitions and Cavity Walls, 8. Doors, Windows and Ventilators, 9. Lintels and Arches, 10. Floor and Flooring, 11. Roofs, 12. Stairs and Lifts, 13. Plastering and Pointing, 14. Painting and Other Decorative Finishes, 15. Cement Concrete Works, 16. Temporary Works, 17. Plumbing Services, 18. Electricity Supply, 19. Damp-Proofing and Waterproofing, 20. Anti-Termite Treatment, 21. Ventilation, Air Conditioning and Thermal Insulation, 22. Acoustics of Buildings, 23. Fire-Resistive Construction, 24. Earthquake-Resistant Buildings, 25. Maintenance of Buildings, 26. Equipment for Building Construction, 27. Mass Housing Schemes and Cost-Effective Construction Techniques, 28. Green Buildings, 29. Planning And Management of Construction Projects • Index

S S Bhavikatti is Emeritus Professor, BVB College of Engineering & Technology, Hubli. He is a former Dean of NITK, Surathkal.



Building Materials

S S Bhavikatti

About the Book

Building Materials covers in detail the properties and uses of various building materials, including stones, bricks, tiles, timber, cement, sand, lime, mortar, concrete, glass, plastics and so on. Ferrous and non-ferrous metals, bitumen, asphalt, tar, plastics, paints and varnishes are included, as are non-traditional materials like fibre reinforced plastics and smart materials. For each material, its manufacture, properties, uses, advantages and disadvantages, and so on, are discussed.

The text, presented in simple, precise and reader-friendly language, is amply supported by figures and tables. The book will meet the academic requirements of degree as well as diploma students. Relevant IS codes have also been listed for the benefit of practising engineers.

Salient Features

For degree and diploma students of civil engineering, this book covers all types of building materials from traditional to modern. The text is amply supported by figures and tables. Relevant IS codes are given at the end of each chapter..

ISBN: 9789325960442 | Price: ₹ 345 | Pages: 208 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Stones, 2. Bricks, 3. Tiles and Other Ceramic Products, 4. Timber and Its Products, 5. Lime, 6. Cement, 7. Pozzolanas, 8. Mortars, 9. Plain Concrete, 10. Special Structural Concrete, 11. Ferrous Metals, 12. Non-Ferrous Metals, 13. Paints, Varnishes and Distemper, 14. Bitumen, Asphalt and Tar, 15. Glass, 16. Plastics, 17. Miscellaneous Materials

S S Bhavikatti is Emeritus Professor, BVB College of Engineering & Technology, Hubli. He is a former Dean of NITK, Surathkal.

Ground Improvement Techniques

Nihar Ranjan Patra

About the Book

The book provides an overview of the basic concepts of ground modifications to difficult soils in a logical and illustrative way. It teaches how to apply alternative solutions to difficult foundation problems and evaluates their effectiveness before and after construction. The text is supported by a large number of examples, review and multiple choice questions, as well as practical problems. The book is intended to serve as a textbook for undergraduate and postgraduate students of Geotechnical, Transportation, Hydraulic and Environmental Engineering, and a reference work for practising civil engineers.

Salient Features

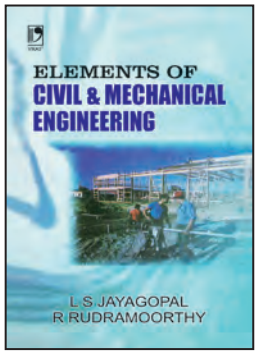
- A well researched textbook on ground improvement techniques
- Conforms to the syllabi of all Indian universities where the subject is taught
- Written by an expert on the subject with a decade of teaching experience

ISBN: 9789325960015 | Price: ₹ 335 | Pages: 336 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Introduction, 2. Mechanical Modifications, 3. Preloading and the Use of Vertical Drains, 4. Geosynthetics, 5. The Premixing Method, 6. Modification by Grouting, 7. In-situ Ground Reinforcement, 8. Modelling of Soil Reinforcement • *Annexures: Conversion Relationships, Geotextile Related Terms, Geomembrane-related Terms, Computer Programming Codes for Stone Column and for Preloading and Sand Drains*

Nihar Ranjan Patra is presently Associate Professor in the Department of Civil Engineering, Indian Institute of Technology, Kanpur.



Elements of Civil and Mechanical Engineering

L S Jayagopal & R Rudramoorthy

ISBN: 9788125915461
Price: ₹ 395 | Pages: 362
Size: 5.5" X 8.5" (Paperback)

About the Book

This book presents the fundamentals of Civil and Mechanical Engineering. Designed as per the revised and new core engineering paper of Basic Engineering I. this book is written in a style suitable for students just out of school.

Key Features

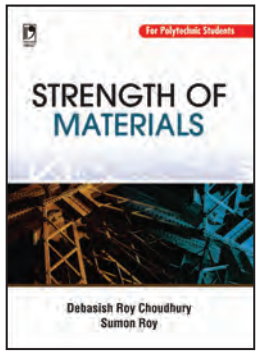
- Logical build up of topics and concepts
- Up-to-date coverage of trends and development in the subject
- Simple and clear elucidation
- Numerous simple solved problems and exercises
- Examination oriented questions

Contents

1. Fluid Mechanics, 2. Thermodynamics, 3. Power Generating Systems, 4. Power Absorbing Systems, 5. Mechanical Power Transmission, 6. Manufacturing Processes, 7. Scope of Civil Engineering, 8. Building Construction; Stress, 9. Strain, 10. Elasticity, 11. Surveying, 12. Highway and Railway Engineering, 13. Bridges, 14. Dams, 15. Public Health Engineering • Model Question Paper

L S Jayagopal is a retired Professor, Department of Civil Engineering, PSG College of Technology, Coimbatore.

R Rudramoorthy is Professor of Mechanical Engineering and principal of PSG College of Technology, Coimbatore.



Strength of Materials (For Polytechnic Students)

Debasish Roy Choudhury & Sumon Roy

ISBN: 9789325984356
Price: ₹ 450 | Pages: 522
Size: 6.75" X 9.5" (Paperback)

About the Book

The subject Strength of Materials is concerned with those properties of engineering and engineered materials that ensures its ability to provide safety and stability during its operating life. The scope of the subject is vast and involves good understanding of the properties of a material under static and dynamic loading, basic mechanics and the like.

Within its scope, this book consists of seven chapters and covers fundamental aspects of the subject. Each topic of every chapter has been explained in as much detail as possible, followed by its counterpart in the form of 'Example Problem'. Example problems are solved in a step-by-step manner such that students find comfortable in dealing with them.

Key Features

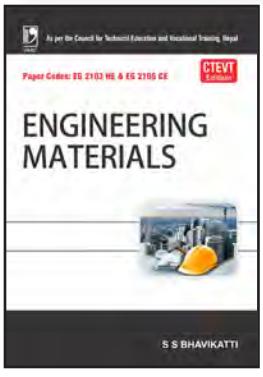
- Large number of example problems
- Step-wise illustration to each example problem for easy understanding by the students
- Plenty of diagrams for each topic of discussion / illustration
- Large number of objective questions with answers commensurate with the questions usually asked in competitive examinations
- Summary at the end of each chapter

Contents

1. Simple Stress and Strain, 2. Shear Force & Bending Moment, 3. Centroid, 4. Moment of Inertia, 5. Bending Stresses in Beams, 6. Deflection of Beam, 7. Columns & Struts

Debasish Roy Choudhury is presently working as Officer-in-Charge, Baruipur Government Polytechnic, West Bengal.

Sumon Roy is presently working as a Sr. Lecturer & Head, Mechanical Engineering Department, APC Roy Polytechnic, Kolkata.



ENGINEERING MATERIALS (For Polytechnic Students)

S S Bhavikatti

ISBN: 9789356748354
Price: ₹ 195 | Pages: 144
Size: 6.5" X 9.25" (Paperback)

About the Book

This book covers in detail, properties and uses of various building materials as prescribed by CTEVT, Nepal, for engineering students. The text, presented in a simple, precise and reader-friendly language, is amply supported by figures and tables. The book will meet the academic requirements of degree as well as diploma students. Relevant IS codes have also been given for the benefit of practising engineers.

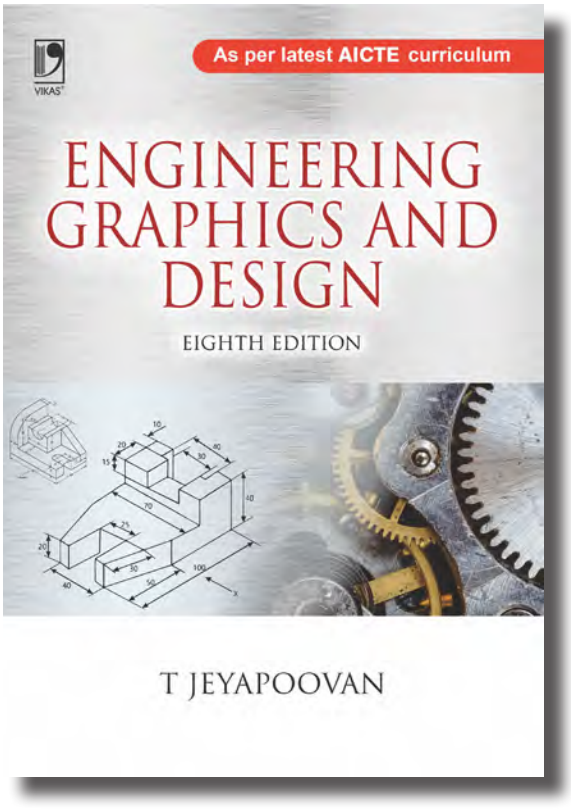
Key Features

- Comprehensive coverage of the syllabus
- Covers all types of building materials, from traditional to modern
- Simple and precise explanations
- Text sufficiently illustrated by figures and tables
- Relevant IS codes given at the end of each chapter

Contents

• Stones • Bricks • Tiles and Other Ceramic Products • Timber and its Products • Lime Cement • Ferrous Metals • Non-Ferrous Metals • Paints, Varnishes and Distemper • Glass • Miscellaneous Materials

S S Bhavikatti is presently working as Officer-in-Charge, Baruipur Government Polytechnic, West Bengal.



Engineering Graphics and Design, 8e

T Jeyapoovan

About the Book

Engineering Graphics and Design, 8e has been specifically designed and written to meet the requirements of the first semester engineering students of all colleges/ universities. The study of Engineering Graphics and Design builds foundations of analytical, graphical and design capabilities for engineering students. This book adopts step-by-step instructions to explain drafting and solid modeling in design. With all design and drafting prepared by using AutoCAD software, the book would be a perfect choice for all engineering students.

Salient Features

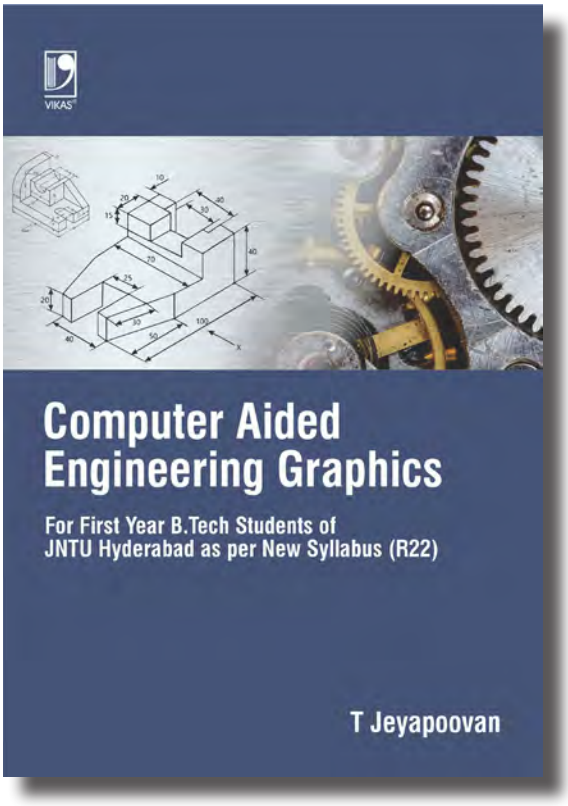
- Designed for Outcome Based Education (OBE)
- Proven logical sequence of examples for easy learning
- Suggested study plan for complete coverage of syllabus and practice
- Numerous solved examples and assessment exercise problems
- Short questions and multiple-choice questions (MCQs) for quick learning outcome assessment

Market: Primarily for BE/BTech. Also useful for ME/MTech.

ISBN: 9789356742642 | Price: ₹ 725 | Pages: 848 | Book Size: 6.5" X 9.25" (Paperback)

Contents

T Jeyapoovan is Professor, Hindustan Institute of Technology and Science, Chennai. He has over 25 years of teaching experience and specializes in computer programming, computer aided design and drafting.



Computer Aided Engineering Graphics

[For First Year B.Tech Students of JNTU Hyderabad as per New Syllabus (R22)]

T Jeyapoovan

About the Book

This meticulously revised book aligns with the latest JNTU, Hyderabad syllabus, integrating Computer Aided Drafting principles. Building on the success of its all-India edition, the book incorporates increased example problems, AutoCAD-generated drawings, and assessment tools to facilitate effective learning. Thoroughly reviewed chapters, showcasing the conversion of pictorial drawings to orthographic projections, provide students with a strong foundation in Traditional Engineering Graphics and contemporary drafting techniques. This edition enhances the learning experience for students and meets the evolving needs of engineering education.

Salient Features

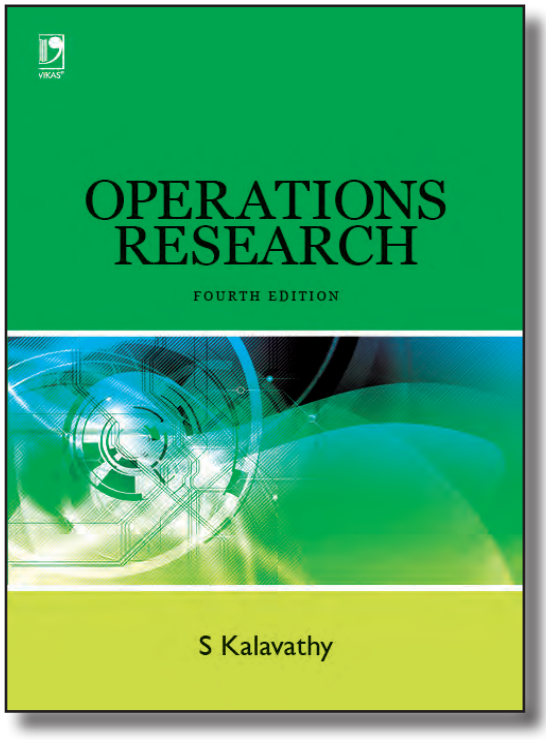
- Revised for JNTU, Hyderabad syllabus, embracing Computer Aided Drafting and aligning with Outcome-Based Education.
- Thoroughly reviewed chapters, incorporating the latest syllabus, and adding more example problems for clarity.
- All drawings created using AutoCAD software, enhancing practical application and relevance.
- Includes various assessment exercises for self-evaluation and understanding.
- Utilizes different shades to illustrate the conversion of pictorial drawings to orthographic projections for improved comprehension.

Market: Primarily for BE/BTech. Also useful for ME/MTech.

ISBN: 9789356743199 | Price: ₹ 425 | Pages: 596 | Book Size: 6.5" X 9.25" (Paperback)

Contents

T Jeyapoovan is Professor, Hindustan Institute of Technology and Science, Chennai. He has over 25 years of teaching experience and specializes in computer programming, computer aided design and drafting.



Operations Research, 4e

S Kalavathy

Instructor's Resource available

About the Book

Operations Research is the discipline of applying advanced analytical methods to help make better decisions. It helps the management to achieve its goals by using scientific techniques, making the study and understanding of operations research even more important in the present day scenario. This book has been written with the objective of providing students with a comprehensive textbook on the subject. It follows a simple algorithmic approach to explain each concept, often giving different steps. This approach stems from the author's experience in teaching undergraduate and postgraduate students of Madras University and Anna University, Chennai, over many years.

One of the highlights of this book is the solved-problems approach, as each chapter in the book is substantiated by a large number of solved problems. Many of the questions that have been incorporated are from previous examination papers of various universities. In addition, each chapter has numerous exercise problems at the end and a section on short answer questions with answers.

Due to its approach and coverage the book is indispensable to the MBA/PGDM, Engineering and Mathematics students.

New in this Edition

- A New Chapter on Non-Linear Programming has been added
- Includes the Stepping Stone Method to solve Problem of Degeneracy and Transportation Problem

Salient Features

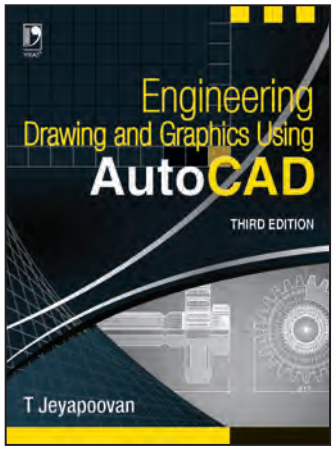
- Covers the syllabus of MBA/PGDM and Engineering courses completely.
- Adopts a solved-problem approach. The book includes 248 problems solved interwoven through the book.
- Method of solving OR problems in a step-wise format for ease in remembering and recalling.
- Contains a large number of Exercise Problems, accompanied with answers

Market: Primarily for Engineering and MBA. Also useful for Mathematics, BBA, MCom.

ISBN: 9789325963474 | Price: ₹ 595 | Pages: 552 | Size: 6.75" X 9.5" (Paperback)

Contents

S Kalavathy is Professor of Mathematics in the Science and Humanities Department, RMD Engineering College, Chennai. She has been teaching for the past 25 years, having handled almost all engineering mathematics subjects for various disciplines in UG and PG courses, including MBA/MCA.



Engineering Drawing & Graphics Using Auto CAD, 3e

T Jeyapoovan

About the Book

The study of engineering drawing builds the foundation of analytical capabilities for solving a wide variety of engineering problems and has real-time applications in all branches of engineering. Student-friendly, lucid and comprehensive, this book adopts step-by-step instructions to explain and solve problems. A major highlight of this book is that all the drawings are prepared using AutoCAD.

Key Features

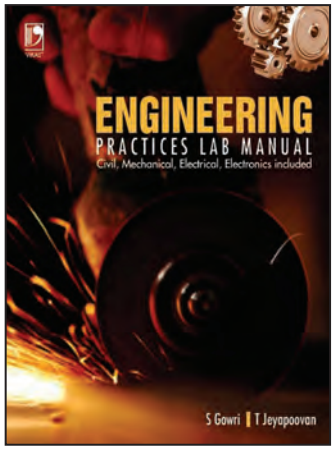
- Contains simplified diagrams to explain problems
- Presents logical sequence of examples for easy learning
- Uses the actual dimensions and details of constructions followed in building drawings
- Includes a large number of figures, solved problems, exercise problems and short questions with answers
- Provides numerous examination-oriented questions for self-assessment

ISBN: 9788125940005 | Price: ₹ 540 | Pages: 712 | Size: 7.25" X 9.5" (Paperback)

Contents

1. Introduction, 2. Projections of Points, 3. Projections of Straight Lines, 4. Projections of Planes, 5. Auxiliary Projections, 6. Projections of Solids, 7. Orthographic Projections, 8. Section of Solids, 9. Development of Surfaces, 10. Interpenetration of Solids, 11. Isometric Projection, 12. Perspective Projection, 13. Building Drawing, 14. Freehand Sketching, 15. Computer Aided Design and Drafting

T Jeyapoovan is a professor in the department of Mechanical Engineering, Hindustan Institute of Technology and Science, Padur, Chennai.



Engineering Practices Lab Manual, 5e

S Gowri & T Jeyapoovan

About the Book

Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil, Mechanical, Electrical and Electronics areas. The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field.

Key Features

- A hands-on guide to Engineering Practicals
- Offers more than 70 experiments.
- Introduces the tools before every Practice
- Viva questions after every Practice
- Space for rough work provided within the book

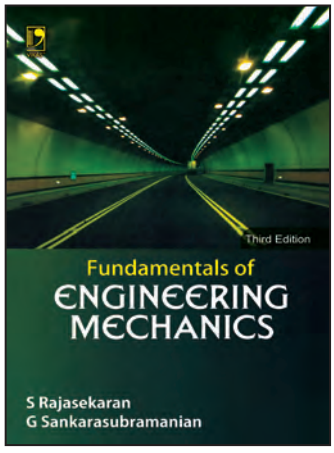
ISBN: 9788125949657 | Price: ₹ 595 | Pages: 452 | Size: 7.25" X 9.5" (Paperback)

Contents

Part-I: Civil Engineering Practice: Plumbing and Woodwork • Practices in Plumbing • Practices in Wood Work • Study Experiments, Part-II: Mechanical Engineering Practice: Welding and Machining • Practices in Welding • Practices in Machining • Demonstration on Smithy • Demonstration on Foundry • Study Experiments • Practices in Fitting • Practices in Sheet Metal Work, Part-III: Electrical Engineering Practice • Study Experiments, Part-IV: Electronic Engineering Practice • Study Experiment

S Gowri is the first Registrar of Anna University.

T Jeyapoovan is a professor in the Department of Mechanical Engineering, Hindustan Institute of Technology and Science, Padur, Chennai.



Fundamentals of Engineering Mechanics, 3e

S Rajasekaran & G Sankarasubramanian

About the Book

It illustrates the application of numerical methods to solve engineering problems with mathematical models and introduces students to the use of computer applications to solve problems. A continuous step-by-step build up of the subject makes the book very student-friendly. All topics and sequentially coherent subtopics are carefully organized and explained distinctly each chapter.

Salient Features

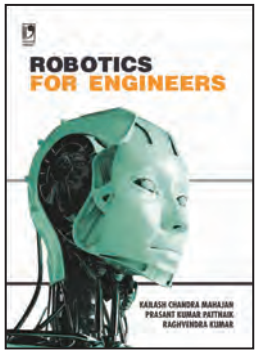
- An abundance of solved examples is provided to illustrate all phases of the topic under consideration.
- All chapters include several spreadsheet problems for modelling of physical phenomena, which enable the students to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high-level computer language.
- This edition includes past question papers of Anna University and their solutions.

SBN: 9788125918653 | Price: ₹ 795 | Pages: 924 | Size: 6" X 9" (Paperback)

Contents

S Rajasekaran is Visiting Professor, Department of Civil Engineering, PSG College of Technology, Coimbatore.

G Sankarasubramanian, Professor and Head, Department of Civil Engineering, PSG College of Technology, Coimbatore, received national award for promising engineering teacher for creative work done in technical education.



Robotics For Engineers

Kailash Chandra Mahajan, Prasant Kumar Pattnaik & Raghvendra Kumar

ISBN: 9789325984264
Price: ₹ 265 | Pages: 200
Size: 6.75" X 9.5" (Paperback)

About the Book

Robotics for Engineers provides introductory but detailed study of robot design, installation and maintenance. It caters to the needs of the students by emphasizing the practical utility of robot in the field of engineering, science and technology. The book introduces the science and engineering of robotics and provides in-depth coverage of mechanical and electrical manipulation. For every topic, the fundamental mathematical concepts and analytical tools required to develop the relevant theory, algorithms and programming have been discussed sufficiently. ACL programming has been used for developing the robot programming.

In the current form, this book is useful for undergraduates, postgraduates and research scholar students for their course and research projects.

Key Features

- Coverage of wide application areas and problems
- Includes number of solved, unsolved and multiple choice questions
- Emphasizes the fundamental concepts and tool for analysis
- FAQs to prepare for interviews and viva-voce
- Detailed list of references for further study on the subject

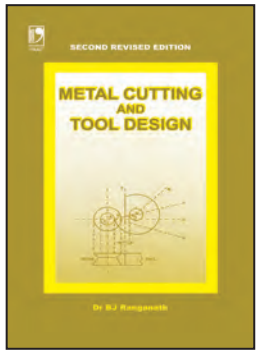
Contents

1. Social Implications of Robotics, 2. Robot Applications, 3. Robot Safety & Path Control, 4. Drive & Sensor Systems for Robot, 5. Interpreting Robot Specifications, 6. Planning, Installation, Maintenance & Programming Techniques for Robot, 7. Robot Tooling for Advanced Manufacturing, 8. ACL CIM Programs & Position for Robot

Kailash Chandra Mahajan is Ph.D (Electronics), has been working as Principal, LNCT College, Jabalpur, MP, India.

Prasant Kumar Pattnaik is Professor at the School of Computer Engineering, KIIT University, Bhubaneswar.

Raghvendra Kumar has been working as Assistant Professor in Department of Computer science and engineering at LNCT College, Jabalpur, MP.



Metal Cutting and Tool Design, 2e

B J Ranganath

ISBN: 9780706975109
Price: ₹ 415 | Pages: 280
Size: 5.5" X 8.5" (Paperback)

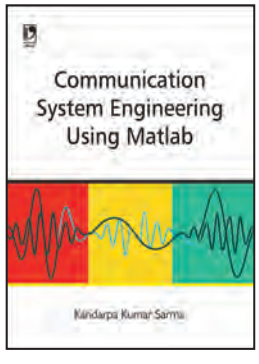
About the Book

The second revised edition of the book fully covers Metal Cutting and Tool Design taught at undergraduate and post-graduate courses at different universities and institutes. The basic principles required in understanding the subject are explained in detail and at the same time advance topics in the subject are discussed with a number of illustrations and photographs.

Contents

1. Metal Machining, 2. Mechanics of Metal Cutting, 3. Measurement of Cutting Forces, 4. Heat in Metal Cutting, 5. Failure of Cutting Tools, 6. Tool Wear Measurement, 7. Tool Materials, 8. Cemented Titanium Carbide Tool, 9. Ceramic Cutting Tools, 10. Tool Geometry, 11. Cutting Fluids, 12. Economics of Machining, 13. Cutting Tool Design, 14. Design of Single Point Tool, 15. Design of Drill, 16. Design of Milling Cutter, 17. Design of Broach, 18. Cutting Tool Manufacturing, 19. Gear Cutting Tools, 20. Thread Cutting Tools, 21. Design of Reamer, References, Addendum

B J Ranganath, Professor and Head, Department of Industrial and Production Engineering, National Institute of Engineering, Mysore.



Communication System Engineering Using Matlab

Kandarpa Kumar Sarma

ISBN: 9789325984547
Price: ₹ 425 | Pages: 400
Size: 6.75" X 9.5" (Paperback)

About the Book

The present title is intended to be an introduction to communication system engineering with stress upon basic know how, practical design and programming using MATLAB. The contents are presented in a concise manner with summary of the topics, solved questions, practical design guidelines, probable questions and application of MATLAB. A sizable portion of the book has relevant content related to practical design of the systems. The book has ten chapters and is expected to help the reader in developing insights into the working and design of communication systems.

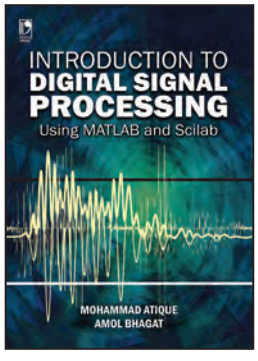
Key Features

- Use of MATLAB to cover the basic foundations of communication system.
- A detailed practical approach to design of AM, FM and pulse modulation systems.
- Summarized and concise description of each of the chapters, solved problems and MATLAB programs.
- Probable questions and brief historical description of almost all major issues.
- Discussion on television and radar as examples of communication system.

Contents

1. Signal, Systems and Audio Basics, 2. Fourier Series and Fourier Transform, 3. Radio Basics, 4. Amplitude Modulation, 5. Angle Modulation, 6. Noise and Random Process, 7. Sampling Theorem, 8. Pulse Modulation, 9. Elements of TV System, 10. Fundamentals of Radar

Kandarpa Kumar Sarma is currently Associate Professor in Department of Electronics and Communication Technology, Gauhati University, Guwahati, Assam, India. He did his PhD in the area of Soft-Computational Application in Mobile Communication from the same institute. He also completed Post Doc research from Technical University Sofia, Bulgaria in 2015.



Introduction to Digital Signal Processing

Mohammad Atique & Amol Bhagat

ISBN: 9789325984318
Price: ₹ 295 | Pages: 264
Size: 6.75" X 9.5" (Paperback)

About the Book

Written for the UG and PG students of Electrical, Electronics, Computer Science & Engineering and Information Technology meets the syllabus requirements of most Indian Universities. This covers basic concepts of digital signal processing which are necessary for the implementation of signal processing systems and applications. Elaboration of basic digital concepts using MATLAB and Scilab codes is provided for practical knowledge of the students. Some topics on classical/analytical Signal Processing required for various national level examinations like GATE etc have also been covered.

Key Features

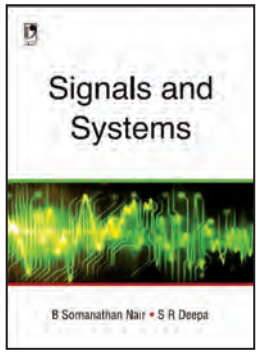
- Illustrative numerical solved example on each topic.
- MATLAB and Scilab implementations of most of the concepts.
- Practice examples and programming assignments.
- Website containing additional programs in MATLAB and Scilab software.

Contents

1. Introduction to Digital Signal Processing Systems, 2. Discrete Time Signals, 3. Sampling, 4. The Z-Transform and Analysis of Lit System, 5. Rational Z-Transform and Inverse Z-Transform, 6. Analysis of Discrete Time Linear Time Invariant (Dtlti) Systems, 7. Fourier Series and Fourier Transform, 8. Discrete and Fast Fourier Transforms, 9. Realization of Discrete-Time Systems, 10. Iir and Fir Filters

Mohammad Atique is Professor in Post Graduate Department of Computer Science & Engineering, Sant Gadge Baba Amravati University, Amravati since 2007. He is a Member, Board of Studies in Information Technology and Member Faculty of Engineering & Technology, Sant Gadge Baba Amravati University, Amravati since 2007.

Amol Bhagat is Assistant Professor in Department of Computer Science & Engineering, Prof. Ram Meghe College of Engineering and Management, Amravati since 2010.



Signals and Systems

B Somanathan Nair & S R Deepa

ISBN: 9789325984530
Price: ₹ 495 | Pages: 468
Size: 6.75" X 9.5" (Paperback)

About the Book

This book is intended as a textbook catering the needs of the second-year undergraduate students of engineering and applied sciences degree courses in Electronics, Communication and allied branches. Signals and Systems is a prerequisite for subjects like Digital Signal Processing, Digital Communication and Control systems.

In writing this textbook, authors have used simple language, avoided using long and complex sentences. All the derivations are thorough and complete with average Indian students in mind and lots of numerical examples have been given to illustrate theory.

Salient Features

- 271 Solved problems
- 258 Multiple-choice questions with answers
- 430 Diagrams
- Points to be memorized at the end of each chapter
- Short-answer questions and review questions at the end of each chapter

Benefits

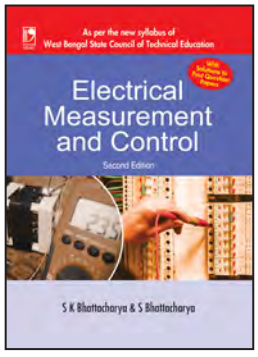
Useful to any student who pursues training in signal studies.

Contents

1. Fundamentals of Signals, 2. Differential and Difference Equations Related to Systems, 3. Signals and Functions Encountered in Signal Processing, 4. Systems and Their Properties, 5. Continuous-Time Laplace Transformation, 6. The Fourier Series, 7. Continuous-Time Fourier Transformation, 8. Discrete-Time Fourier Transform and Z Transform, 9. Passive and Active RC Filters, 10. Passive LC Filters, 11. Sampling Theory • Appendix

B Somanthan Nair is currently working as the Principal of SHM Engineering College, Kadakkal, Kerala. Formerly, he was the Principal of various government engineering colleges in Kerala. He was also the Joint Director of Technical Education, Kerala; Controller of Examinations of Kannur University; and member of the Syndicate of M. G. University, Kottayam. He is the author of 28 textbooks in the area of electronic engineering. He has also published several articles in national and international journals.

S R Deepa is currently acting as the Principal of KMP College of Engineering, Perumbavoor, Kerala. Formerly, she was a professor in the Department of Optoelectronics, University of Kerala, Thiruvanathapuram. She is the co-author of 10 textbooks in the area of electronic engineering. She has also published several articles in national and international journals.



Electrical Measurements and Control (WBSCTE)

S K Bhattacharya & S Bhattacharya

ISBN: 9789352715855
Price: ₹ 350 | Pages: 304
Size: 6.75" X 9.5" (Paperback)

About the Book

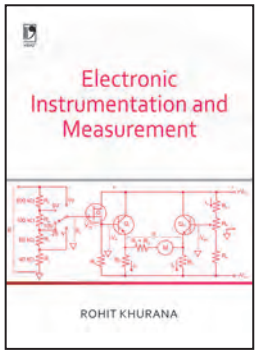
This book has been written with total focus on meeting the objectives of the subject 'Electrical Measurement and Control' as given by the syllabus of WBSCTE. The text has been written so as to create interest in the minds of students in learning further.

Key Features

- After reading this book the student will be able to:
- Identify the sub-systems of a complete instrumentation system and explain the function of each
- Select the correct transducer for receiving the measurement system input
- Explain the basic signal conditioning processes, data transmission techniques, data storage and display devices
- Understand the working of control devices used in motor controls and process controls
- Represent a control system in a simplified block diagram form using transfer function
- Determine the stability conditions of a system using stability study criteria and explain the use of different types of controllers

Contents

1. Transducers, 2. Signal Conditioning, 3. Digital Instruments and Display Devices, 4. Pilot Devices used in Control Circuits, 5. Control Systems, • Appendix: Introduction to Laplace Transforms, • Recent Question Papers with Solution



Electronic Instrumentation and Measurement

Rohit Khurana

ISBN: 9789325990203
Price: ₹ 595 | Pages: 552
Size: 6.75" X 9.5" (Paperback)

About the Book

The book Electronic Instrumentation and Measurement has been written for the students of BE/BTech in Electronics and Communication Engineering, Electrical and Electronics Engineering, and Electronic Instrumentation Engineering. It explains the performance, operation and applications of the most important electronic measuring instruments, techniques and instrumentation methods that include both analog and digital instruments.

The book covers a wide range of topics that deal with the basic measurement theory, measurement techniques, such as analog meter movements, digital instruments, power and energy measurement meters, AC and DC bridges, magnetic measurements, cathode ray oscilloscope, display devices and recorders, and transducers. It also explains generation and analysis of signals along with DC and AC potentiometers, and transformers.

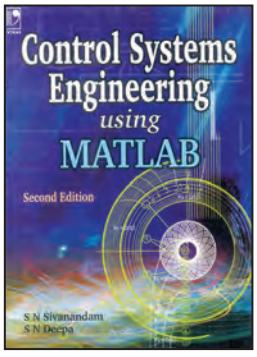
Key Features

- Complete coverage of the subject as per the syllabi of most universities
- Relevant illustrations provide graphical representation for in-depth knowledge
- A large number of mathematical examples for maximum clarity of concepts
- Chapter objectives at the beginning of each chapter for its overview
- Chapter-end summary and exercises for quick review and to test your knowledge
- A comprehensive index in alphabetical form for quick access to finer topics

Contents

1. Electronic Measurement, 2. Measurement Characteristics, 3. Electromechanical Instruments, 4. DC and AC Measuring Instruments, 5. Digital Instruments, 6. Power and Energy Measurement, 7. DC and AC Measurement Bridges, 8. Methods of Magnetic Measurement, 9. Cathode Ray Oscilloscope, 10. Display Devices and Recorders, 11. Transducers, 12. Generation of Signals, 13. Analysis of Signals, 14. DC and AC Potentiometers, 15. Transformers

Rohit Khurana is the Founder and CEO of ITL Education Solutions Limited (ITLESL) and has authored more than thirty-five best-selling textbooks.



Control Systems Engineering Using MATLAB, 2e

S N Sivanandam &
S N Deepa

ISBN: 9788125919063
Price: ₹ 650 | Pages: 524
Size: 6.25" X 9.5" (Paperback)

About the Book

Control Systems Engineering using MATLAB provides students with a concise introduction to the basic concepts in automatic control systems and the various methods of solving its problems. Designed to comfortably cover two academic semesters, the style and form of the book makes it easily comprehensible for all engineering disciplines that have control system courses in their curricula. The solutions to the problems are programmed using MATLAB 6.0 for which the simulated results are provided. The MATLAB Control Systems Toolbox is provided in the Appendix for easy reference. The book would be useful as a textbook to undergraduate students and as quick reference for higher studies.

Salient Features

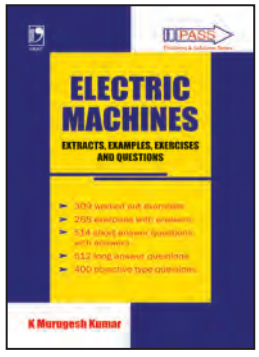
- Concise coverage of all major control system concepts and techniques
- Around 250 solved problems using step-wise method of solving problems
- Plenty of review questions and exercises
- Simulated results obtained for control system concepts using MATLAB 6.0

Contents

1. Introduction to Automatic Control Systems, 2. Mathematical Modelling of Linear Systems, 3. Transfer Function, Block Diagram and Signal Flow Graph, 4. Time Domain Analysis, 5. Frequency Response Analysis, 6. Control System Components, 7. Routh-Hurwitz Stability Criterion, 8. Nyquist Stability Analysis, 9. Bode Plot, 10. Root Locus Method, 11. M and N Circles and Nichols Chart, 12. Compensation Techniques, 13. Non-linear Systems, 14. State-space Analysis, 15. Digital Control Systems, 16. Neural Networks and Fuzzy Logic in Control Systems • *Appendix-A: Problems with Solutions* • *Appendix-B: Objective Type Questions* • *Appendix-C: MATLAB Environment* • *Appendix-D: Short Questions* • *Bibliography* • *Index*

S N Sivanandam, former Professor and Head, Department of Electrical and Electronics Engineering and Computer Science Engineering, PSG College of Technology, Coimbatore.

S N Deepa is Associate Professor, Department of Electrical and Electronics Engineering, Anna University Regional Centre, Coimbatore.



Electric Machines: Extracts, Examples, Exercises and Questions

K Murugesh Kumar

ISBN: 9788125910701
Price: ₹ 695 | Pages: 656
Size: 5.5" X 5.5" (Paperback)

About the Book

A handy supplement and quick reference guide, this book covers the major gamut of Electric Machines including DC Machines, Transformers, Induction Machines and Synchronous Machines.

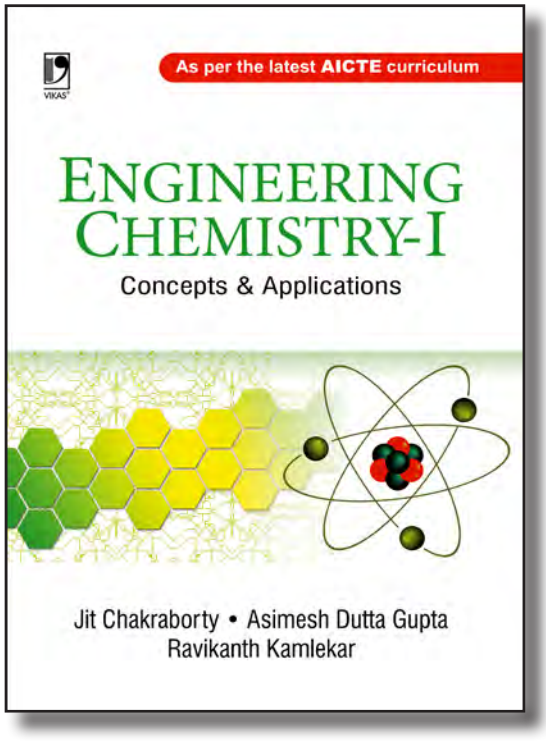
Salient Features

- Standard symbols prescribed by BIS (Bureau of Indian Standards)
- 309 worked out examples, 268 exercises with answers
- 514 short answer questions with answers, 512 long answer questions
- 400 objective type questions
- Computation with complex numbers for solving AC Machines examples, making use of complex calculation facility available in recently available calculators
- Clear concepts about the nature of different phasors

Contents

Section-I: DC Machines: 1. Fundamentals of Electric Machines, 2. Constructional Features of DC Machines, 3. Methods of Excitation, 4. Armature Reaction and Commutation, 5. Load Characteristics of DC Generators, 6. Parallel Operation of DC Generators, 7. Principle of DC Motors, 8. Load Characteristics of DC Motors, 9. Control of DC Motors, 10. Losses, Efficiency and Testing of DC Machines • *Objective Type Questions*, Section-II: Transformers: 11. Principle of Transformers, 12. Performance of Transformers, 13. Testing of Transformers, 14. Parallel Operation of Transformers, 15. Auto-Transformers, 16. Three-Phase Transformer Connections, 17. Miscellaneous Topics on Transformers, 18. Instrument Transformers • *Objective Type Questions*, Section-III: Induction Machines: 19. Three-Phase Induction Machines—Constructional Details, 20. Three-Phase Induction Machines—Principles of Operation, 21. Losses and Efficiency, 22. Equivalent Circuit of Three-Phase Induction Motor, 23. Testing and Performance Prediction, 24. Miscellaneous Topics on Three-Phase Induction Machines, 25. Control of Three-Phase Induction Motors, 26. Single-phase Induction Motors • *Objective Type Questions,* Section-IV: Synchronous Machines: 27. Constructional Features of Synchronous Machines, 28. Load Characteristics of Alternators, 29. Predetermination of Voltage Regulation of Alternators, 30. Parallel Operation of Alternators, 31. Operation on Infinite Bus-Bars, 32. Synchronous Motors, 33. Hunting of Synchronous Machines, 34. Circle Diagram of Synchronous Machines, 35. Two Reaction Theory • *Objective Type Questions*

K Murugesh Kumar is Assistant Professor, Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore.



Engineering Chemistry -I Concepts & Applications

Jit Chakraborty, Asimesh Dutta Gupta & Ravikanth Kamlekar

About the Book

Engineering Chemistry – I: Concepts and Applications is a textbook that offers an exclusive coverage of the topics and proper explanation of concepts as per the present day and future needs of the students. The book provides the theoretical (Chapters 1–7) as well as practical (Chapter 8) aspects of the paper Chemistry–I (BSC102) as per the latest AICTE curriculum. It will be useful to not only the first-year engineering and technology students of all streams but also the professors for guiding their students.

The book is to the point, syllabus-oriented, and wellwritten. The writing style is up to the mark for the engineering students.– Dr. Harekrushna Sahoo, NIT Rourkela

Difficult topics, such as stereochemistry, have been explained in a simple manner. For each topic, we refer different books. In this book, all the topics mentioned in the syllabus are together, so it's good for a student to have it.

– Dr. Kavitha Marapakala, Osmania University

TThe chapters are appropriately organized. For engineering students, this book will be easy to follow and understand. – Dr. V. Anbazhagan, SASTRA Deemed University, Thanjavur

Explanation of the concepts is clear and simple. – Dr. Manjunatha M., CMR Institute of Technology, Bengaluru

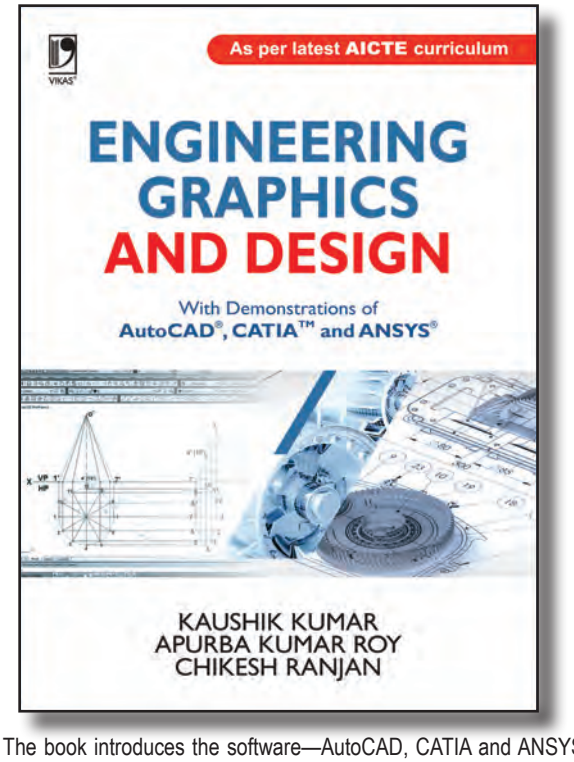
Key Features

- Detailed discussion with point-wise explanation of the concepts
- Let's Think sections - In-text questions with answers after each section
- A large number of Solved and Unsolved Exercises
- Complete laboratory manual for practical applications
- A large number of questions with answers for viva voce

Market: B.Tech/BE (all courses)

ISBN: 9789354534348 | Price: ₹ 475 | Pages: 436 | Size: 6.75" X 9.5" (Paperback)

Contents



Engineering Graphics and Design: With Demonstrations of AutoCAD, CATIA & ANSYS

Kaushik Kumar, Apurba Kumar Roy & Chikesh Ranjan

About the Book

This newly written book is a boon to the first-year engineering students of all branches getting admitted to AICTE-complying colleges from 2018 onwards, as it covers the complete syllabus of 'Engineering Graphics and Design' prescribed by AICTE's model curriculum. Written by the experts of the subject, it provides traditional engineering graphics with the aid of CAD software like AutoCAD, CATIA and ANSYS, through simple and well-explained examples along with an ample number of unsolved problems and MCQs. Screenshots have been provided after every step, making it simple to learn how to use the software for a specific solution. It targets all academics—students, and researchers as well as industry practitioners and engineers, involved in engineering drafting.

The book begins by introducing the role and application of engineering drawing and describing such basics as the types of drawing sheets, lines, planes, quadrants and angles of projection, and national and international drawing standards which it calls the basic grammar for engineering graphics as a language. The book introduces the software—AutoCAD, CATIA and ANSYS emphasizing on their specific features. Equipping the reader with this ground knowledge it comes to the nitty-gritty of drawing various curves, projection of points in separate quadrants, projection of straight lines in various positions, various projections of plane surfaces, and solids like prism, pyramid, cylinder and cone. It then goes further to sections of solids wherein the placements of the cutting planes have been explained in various positions like perpendicular, parallel, and inclined to HP and VP. Having thus trained the drafter in handling the drafting tools the book graduates to more complicated material like fusion of one solid shape into another. It explores various types of them so that development of lateral surfaces of solids can be made and depicted isometrically and projected orthographically. Lastly, the book describes 3D modelling using CATIA, where solid models are drawn, and how 2D analysis is done using ANSYS.

Salient Features

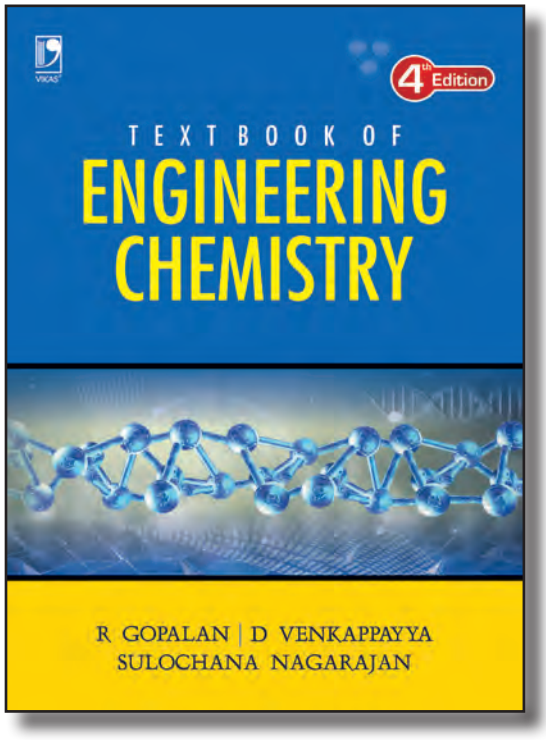
- Exclusive treatment to all aspects of Engineering Graphics
- Step-by-step approach showing graded development
- Numerous exercises and MCQs to allow the reader to self-assess himself
- A companion video of various exercises that provides a visual display of the problems being solved, and shows how to utilize various tools and utilities of the software used

Market: First Year Engineering Students of all Branches. Also useful for Mechanical Drafters & Engineers.

ISBN: 9789352718726 | Price: ₹ 360 | Pages: 440 | Book Size: 6.75" X 9.5" (Paperback)

Contents

Kaushik Kumar, Associate Professor, Birla Institute of Technology, Mesra (Ranchi).
Apurba Kumar Roy, Associate Professor, Birla Institute of Technology, Mesra (Ranchi).
Chikesh Ranjan, Assistant Professor, RTC Institute of Technology-Ormanjhi, Ranchi.



Textbook of Engineering Chemistry, 4e

R Gopalan, D Venkappayya &
Sulochana Nagarajan

About the Book

Spread across 24 chapters and covering a wide variety of topics required by the core engineering students of all branches, the 4th edition of this well-accepted textbook has been thoroughly revised to include the current trends in the B.Tech/BE curricula. Due to its simple language, straightforward approach to explaining concepts, and the right kind of examples, this book has established itself as student's companion in almost all leading universities in India. With its authentic text and a large number of questions taken from various university examinations, coupled with regular revisions, the book has served well for more than 20 years now.

In the attempt to keep the book aligned with various syllabuses and to reach out to students of more and more universities, more details have been included for the fourth edition, which has been completely recast and reformatted.

For the first year engineering degree courses of Indian universities.

New in this Edition

- Completely recast and reformatted text
- New topics like: Cooling curves for one- and two-component eutectics; Electrode polarization and overvoltage; Decomposition potential; Solar cells; Pitting corrosion; Metallurgy and medicine; Reverse osmosis; Bioengineering.

Key Features

- Fully covers the undergraduate core engineering syllabus
- Numerous solved problems, especially in chapters that involve chemical calculations.
- Includes overall 846 exercise questions -- objective type, short answer type, long answer type and numerical problems. Many questions are from various university examinations. These are to prepare students for exams.
- Profuse usage of chemical equations, coverage of New Engineering Materials and chapter-wise Glossary are hallmark features of the book.
- Contains boxed exhibits throughout the text featuring important and popular aspects of topics.

Market: For BE/BTech.

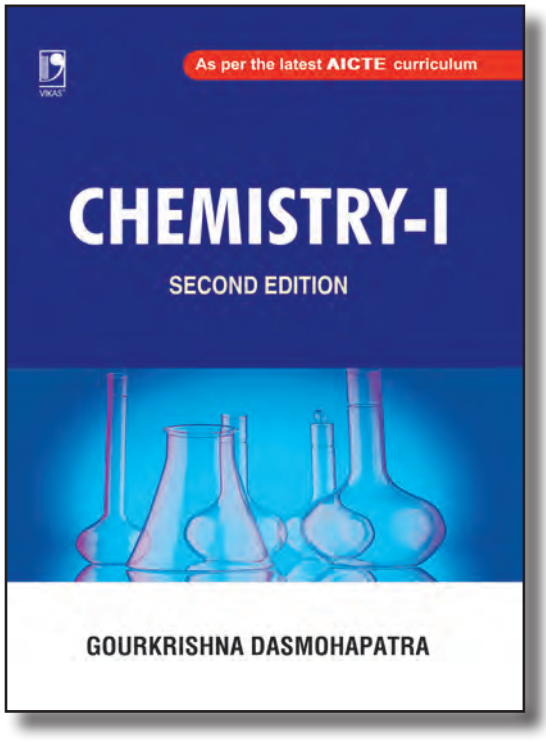
ISBN: 9789325969018 | Price: ₹ 650 | Pages: 608 | Size: 6.75" X 9.5" (Paperback)

Contents

R Gopalan taught at Madras Christian College for 35 years and guided several MPhil and PhD students. Currently, the Director, Sri Malolan College of Arts and Science, Madurantakam, Tamil Nadu.

D Venkappayya is a former Dean and Head, Department of Chemistry, NIT, Tiruchirappalli.

Sulochana Nagarajan has more than 35 years of teaching and research experience. She is presently working at NIT, Tiruchirappalli.



Chemistry-I
(As per the latest AICTE Curriculum)

Gourkrishna Dasmohapatra

About the Book

The book has been designed according to the new AICTE syllabus and will cater to the needs of engineering students across all branches. The book provides the basis which is necessary for dealing with different types of physicochemical phenomena. Great care has been taken to explain the physical meaning of mathematical formulae, when and where they are required, followed by logical development and discussion of experimental behavior of systems. Every chapter has a set of solved problems and exercises. The idea is to instill sound understanding of the fundamental principles and applications of the subject. The author is known for explaining the concepts of Engineering Chemistry with full clarity, leaving no ambiguity in the minds of the readers. Although the book is primarily intended for BTech/BE students, it will also cater to the requirements of those pursuing BSc and MSc, including those of other disciplines like materials science and environmental science.

Key Features

- Conforms to the new AICTE curriculum
- Specially designed solved problems to equip the student to handle all types of them
- Exercises at the end of the chapters to provide hands-on practice
- Examination-oriented approach

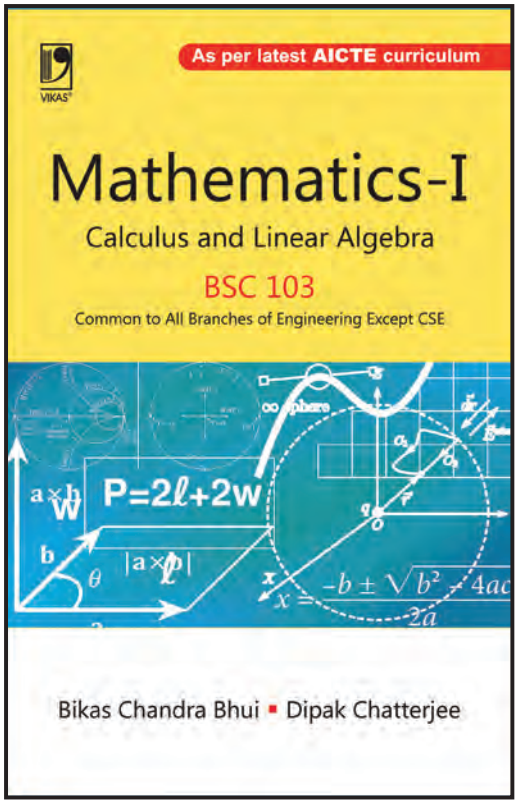
Market: For BE, BTech 2nd Sem (AICTE) for all streams.

ISBN: 9789390033003 | Price: ₹ 625 | Pages: 732 | Size: 6.75" X 9.5" (Paperback)

Contents

Gourkrishna Dasmohapatra has a doctorate in science from Jadavpur University. He teaches at Science and Humanities Section, Netaji Subhash Engineering College, Kolkata, as well as at Jadavpur University. He has worked as post-doctoral fellow at Polymer Institute in Czechoslovakia, at Universitat-Siegen in Germany and also at Central Glass and Ceramic Research Institute, Kolkata for ten years in various capacities.

About the Book



Mathematics-I
Calculus & Linear Algebra (BSC 103)

Bikas Chandra Bhui &
Dipak Chatterjee

ISBN: 9789352718825
Price: ₹ 425 | Pages: 656
Size: 5.5" X 8.5" (Paperback)

About the Book

Mathematics-I for the paper BSC-103 of the latest AICTE syllabus has been written for the first semester engineering students of Indian universities. Paper BSC-103 is common to all streams of engineering except CS&E. Keeping in mind that the students are at the threshold of a completely new domain, the book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of topics. The language is simple, yet accurate. A large number of worked-out problems have been included to familiarize the students with the techniques to solving them, and to instill confidence.

Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems.

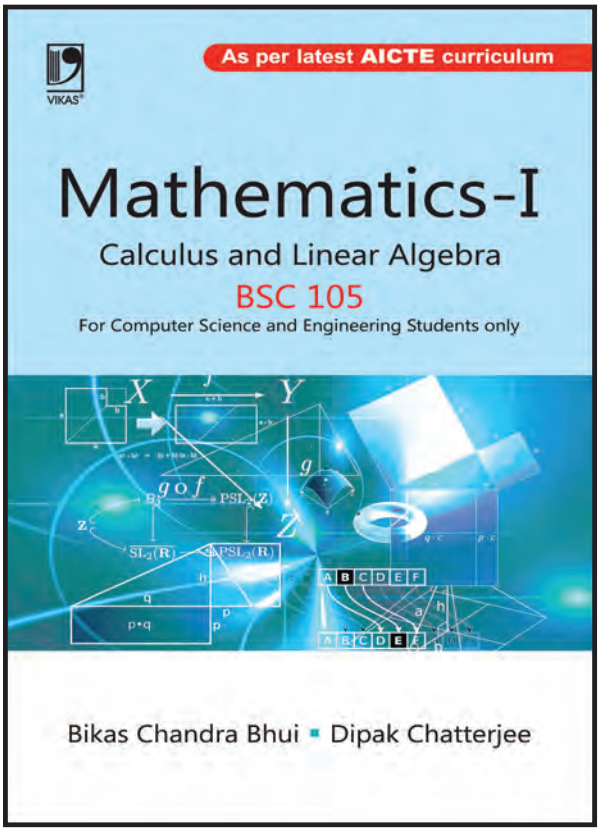
Key Features

- Short and accurate for full comprehension of the topics
- A large number of worked-out problems
- A large number of MCQs at the end of the book
- Written in accordance with the latest AICTE syllabus
- Written by the authors of proven expertise

Contents

Bikas Chandra Bhui is Head of the Mathematics Department at Meghnad Saha Institute of Technology, Kolkata.

Dipak Chatterjee a renowned educationist and social worker of West Bengal.



Mathematics-I
Calculus & Linear Algebra
(BSC 105)

Bikas Chandra Bhui &
Dipak Chatterjee

ISBN: 9789352718832
Price: ₹ 325 | Pages: 480
Size: 5.5" X 8.5" (Paperback)

About the Book

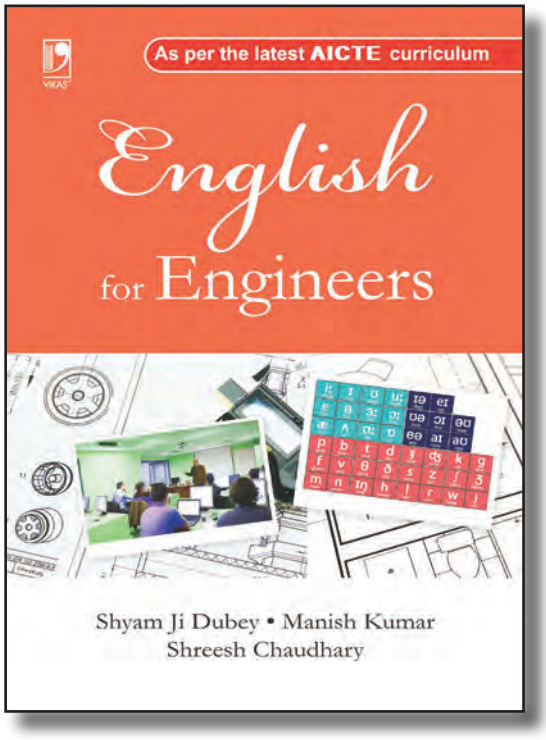
Mathematics-I for the paper BSC-105 of the latest AICTE syllabus has been written for the first semester engineering students of Indian universities. Paper BSC-105 is exclusively for CS&E students. Keeping in mind that the students are at the threshold of a completely new domain, the book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of topics. The language is simple, yet accurate. A large number of worked-out problems have been included to familiarize the students with the techniques to solving them, and to instill confidence.

Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems.

Key Features

- Short and accurate for full comprehension of the topics
- A large number of worked-out problems
- A large number of MCQs at the end of the book
- Written in accordance with the latest AICTE syllabus
- Written by the authors of proven expertise

Contents



English for Engineers

Shyam Ji Dubey, Manish Kumar &
Shreesh Chaudhary

About the Book

This textbook caters to the language specific needs of the students pursuing technical and professional courses at UG level. The book encourages a sound enquiry-based approach among the students. It will help them understand the nuances of the language per se and enable them to apply the concepts in real-life situations. The book prescribes a thorough grounding in listening, speaking, reading and writing skills in English language.

Key Features

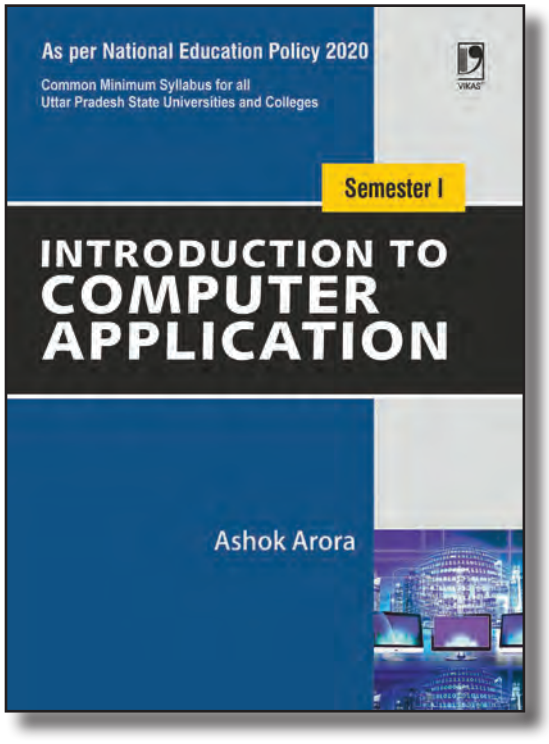
- Deals in the present-day idiom of English language and includes contemporary readings and listening materials aimed at enriching the students both conceptually and linguistically
- Integrates concepts with applications in such a way that learning outcomes are thoroughly experienced
- Has abundant contemporary examples from the field of Engineering which the students would be able to use adeptly when they enter the industrial workforce

Market: B.Tech.,

ISBN: 9789389754339 | Price: ₹ 250 | Pages: 200 | Book Size: 6.75" X 9.5" (Paperback)

Contents

B.Shyam Ji Dubey, Ph.D., is an Assistant Professor in Department of English, GLA University, Mathura, UP.
Manish Kumar, Ph.D., is an Assistant Professor in Department of English, GLA University, Mathura, UP.
Shreesh Chaudhary, Ph. D., (Former Professor, IIT Madras), is a Distinguished Professor in Department of English, GLA University, Mathura.



Introduction to Computer Application for B.Com Students Semester-I (NEP 2020 - Uttar Pradesh)

Ashok Arora

About the Book

Introduction to Computer Application is written for the students of B.Com. of all colleges af?liated to universities in Uttar Pradesh, as the state has started implementing the New Education Policy (NEP) 2020 guidelines. The book provides the students not just the knowledge about the fundamentals of a computer system, like its organization, memory management and hardware devices, but also the software that run on it. The book then proceeds to describe various number system and coding schemes, various approaches of programming and types of computer languages, and operating systems along with the techniques. Basic concepts of database and database management package are also provided. Useful application software like MS Word is described in great detail in a separate chapter. The book ends with fundamentals of widely used data communication and network technologies.

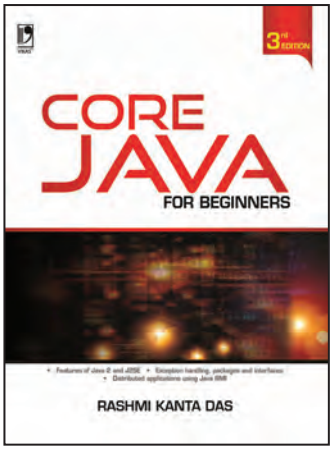
Key Features

- Includes basics of computer, DBMS, database language and word processing
- Includes diagrams, pictures and screenshots
- Provides application-based case studies in each chapter
- Provides key terms, review questions, practical exercises, group discussions and project

Market: B.Com. (First Semester)

ISBN: 9789354534317 | Price: ₹ 250 | Pages: 264 | Size: 6.75" X 9.5" (Paperback)

Contents



Core Java for Beginners, 3e

Rashmi Kanta Das

About the Book

The book introduces the core concepts of Java, along with the knowledge of fundamentals required for developing programs. Starting from the basic concepts of object-oriented programming languages, the book covers an entire range of topics, including advanced topics like RMI, JDBC, and so on. The text is replete with several examples to facilitate better understanding of the intricacies of the programming language. The book has been written keeping in mind the requirements of B.Tech and MCA students.

Key Features

- Incorporates features of Java 2 and J2SE
- Discusses exception handling and garbage collection
- Introduces new pedagogical feature 'Remember', which recapitulates the key points discussed and also clarifies finer programming and conceptual points
- Presents around 350 tested programs with outputs and reinforces the learning through exercises, around 100 MCQs with answers, 250 short answer type questions with answers, and 100 programming type questions

ISBN: 9789325968509 | Price: ₹ 750 | Pages: 916 | Size: 8.5" X 11" (Paperback)

Contents

1. Object Oriented Programming Fundamentals, 2. Evolution of Java Programming Language, 3. Basic Elements of Java, 4. Operators in Java, 5. Conditional Statements and Loops, 6. Class Fundamentals, 7. Taking Input from Keyboard, 8. Object Reference, 9. Arrays in Java, 10. Inheritance, 11. Inner Class or Nested Class, 12. Exception Handling, 13. Package, 14. JAR File, 15. Strings in Java, 16. StringBuffer, 17. Wrapper Class, 18. Java Native Interface, 19. Multithreading, 20. Generics, 21. Files and Streams, 22. Exploring Java.lang Package, 23. The Collection Framework, 24. java.util Package, 25. java.applet Package, 26. java.awt Package, 27. Java Foundation Classes, 28. java.net, 29. Remote Method Invocation, 30. java.sql Package, • Brain Teasers, • Index

Rashmi Kanta Das is a Sun Certified Java Programmer, Web Component Developer, Business Component Developer and a Microsoft Certified System Engineer.

A First Course in Programming with C

T Jeyapoovan

About the Book

The book is for student programmers to effectively write programs for solving numerical problems. All that is required of a beginner programmer is not experience in computing but interest in computing.

The programs illustrated in the book have been accumulated, experimented and tested by the author during his teaching of the subject to a few thousand students in over a decade. The special topic of the book is C graphics and animation which helps students develop simple programs to generate geometrical and graphical objects.

The book is ideal for students of BE, BTech, MCA, BSc (Computer Science), BCA.

Key Features

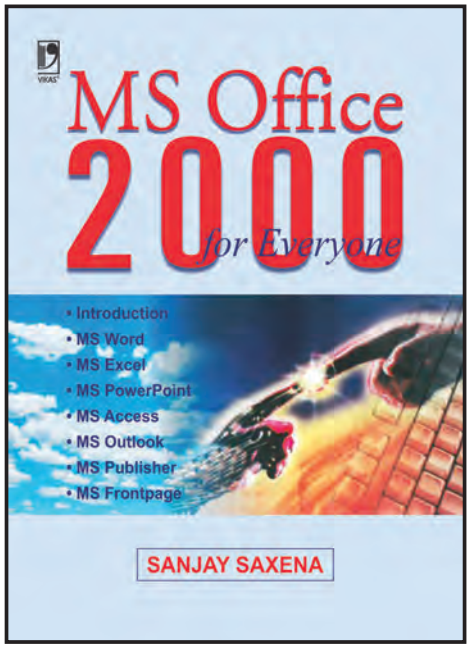
- Includes 134 tested programs
- 234 review questions
- 272 short questions & answers
- Includes a chapter on Graphics using C

ISBN: 9788125912118 | Price: ₹ 480 | Pages: 412 | Size: 7.25" X 9.5" (Paperback)

Contents

1. Introduction to Computers, 2. Introduction to Programming, 3. Fundamentals of C Language, 4. Input/Output Functions and Statements, 5. Control Statements in C, 6. Loop Control Structures in C, 7. Arrays and Subscripted Variables, 8. String Manipulations in C, 9. Functions in C, 10. Structures and Unions, 11. Pointers, 12. Files, 13. C Preprocessor and Command Line Arguments, 14. Graphics using C

T Jeyapoovan is Professor, Hindustan Institute of Technology and Science, Chennai. He has over 25 years of teaching experience and specializes in computer programming, computer aided design and drafting.



MS Office 2000 for Everyone

Sanjay Saxena

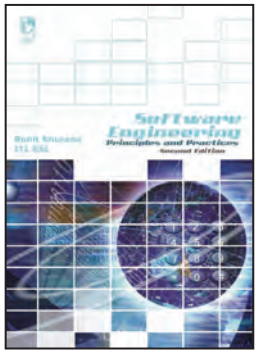
ISBN: 9788125909521
Price: ₹ 595 | Pages: 600
Size: 6.75" X 9.5" (Paperback)

About the Book

Most of us know the operation of MS Office, but very few know the full potential of it. The book shows the way of doing your day-to-day activities like writing letters, doing calculations, creating invoices, tables, graphs, charts, making presentations, diagrams, designs etc. It teaches Word, Excel, PowerPoint, Access, Outlook, Publisher and Frontpage. The book begins from zero level and makes you the master of MS Office. A useful guide for academicians, executives, professionals and businessmen.

Contents

Part-I: Introduction: Unit One: Introduction to Computers, Unit Two: History of Computers,Unit Three: Basic Anatomy of Computers, **Part-II: MS-Office:** Unit Four: Introduction to MS-Office, Part-III: MS-Word: Unit Five: Word Basics, Part-IV: MS-Excel: Unit Six: Excel Basics, Part-V: MS-PowerPoint: Unit Seven: PowerPoint, Part-VI: MS-Access: Unit Eight: MS-Access, Part-VII: MS-Outlook: Unit Nine: MS-Outlook, Part-VIII: MS-Publisher: Unit Ten: MS-Publisher, Part-IX: MS-Frontpage: Unit Eleven: MS-Frontpage



Software Engineering: Principles and Practices, 2e

Rohit Khurana

ISBN: 9788125939467
Price: ₹ 570 | Pages: 552
Size: 6.75" X 9.5" (Paperback)

Instructor's Resource available

About the Book

This revised edition of *Software Engineering: Principles and Practices* has become more comprehensive with the inclusion of several topics. The book now offers a complete understanding of software engineering as an engineering discipline. Like its previous edition, it provides an in-depth coverage of fundamental principles, methods and applications of software engineering. In addition, it covers some advanced approaches including Computer-Aided Software Engineering (CASE), Component-Based Software Engineering (CBSE), Clean-room Software Engineering (CSE) and formal methods.

Taking into account the needs of both students and practitioners, the book presents a pragmatic picture of the software engineering methods and tools. A thorough study of the software industry shows that there exists a substantial difference between classroom study and the practical industrial application. Therefore, earnest efforts have been made in this

book to bridge the gap between theory and practical applications. The subject matter is well supported by examples and case studies representing the situations that one actually faces during the software development process.

For students enrolled in various courses both at the undergraduate and postgraduate levels, such as BCA, BE, BTech, BIT, BIS, BSc, PGDCA, MCA, MIT, MIS, MSc, various DOEACC levels and so on. It will also be suitable for those software engineers who abide by scientific principles and wish to expand their knowledge.

With the increasing demand of software, the software engineering discipline has become important in education and industry. This thoughtfully organized second edition of the book provides its readers a profound knowledge of software engineering concepts and principles in a simple, interesting and illustrative manner.

Salient Features

- Full-length case studies to provide practical insight
- Objective and descriptive questions at the end of each chapter
- Comprehensive glossary to enhance the understanding of technical

Benefits

- Meets the requirements of students enrolled in various courses both at the undergraduate and postgraduate levels.
- Suitable for those software engineers who abide by scientific principles and wish to expand their knowledge.

Contents

1. What is Software Engineering, 2. Software Process and Life Cycle, 3. Software Requirements, 4. Software Design, 5. Software Coding, 6. Software Testing, 7. Software Maintenance, 8. Software Metrics, 9. Software Planning and Scheduling, 10. Software Cost Estimation, 11. Software Quality, 12. Software Configuration Management, 13. Software Re-Engineering, 14. Advanced Topics in Software Engineering

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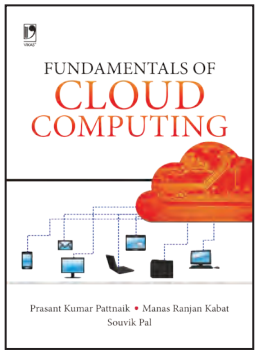


Fundamentals of Cloud Computing

Prasanta Kumar Pattnaik,
Manas Ranjan Kabat &
Souvik Pal

ISBN: 9789325976108
Price: ₹ 275 | Pages: 170
Size: 6.75" X 9.5" (Paperback)

About the Book

In recent times, Cloud Computing has emerged as an important topic in the realm of Information Technology. Cloud Computing has gained eminence due to the growing usage of the Internet among people. This book is especially intended for readers who have no prior knowledge of the subject. Some topics in this book are unique and based on published information that is current and timely and is helpful for research scholars as well as specialists working in areas related to cloud computing. This book is suitable as an introductory text for one semester course in Cloud Computing for undergraduate and postgraduate science courses in Computer Science and Information Technology.

Key Features

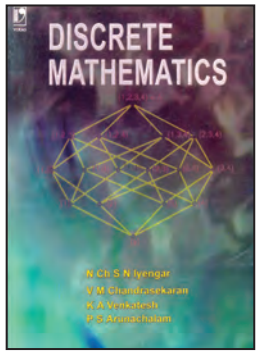
- Provides coverage of Cloud Computing Environments and its popular views
- Incorporates survey of Virtualization Environment and its latest developments
- Discusses Live Migration, Database, Auditing and Applications as important components of Cloud Computing

Contents

1. Basics of Cloud Computing, 2. Introduction to Cloud Computing, 3. Cloud Framework, 4. Virtualization, 5. Classification of Virtualization Environment, 6. Live Migration of Virtual Machines, 7. Cloud Database, 8. Auditing • Appendix: I-II • Glossary

Prasant Kumar Pattnaik, Ph.D., Senior Member, IEEE, is Associate Professor at the School of Computer Engineering, KIIT University, Bhubaneswar.

Manas Rajan Kabat, Ph.D., is Reader and Head, Department of Computer Science and Engineering, VSS University of Technology (VSSUT), Burla, Odisha.



Discrete Mathematics

N Ch S N Iyengar,
V M Chandrasekaran,
K A Venkatesh &
P S Arunachalam

ISBN: 9788125913627
Price: ₹ 550 | Pages: 392
Size: 6.75" X 9.5" (Paperback)

About the Book

Student-friendly and comprehensive, the book covers topics such as Mathematical Logic, Set Theory, Algebraic Systems, Boolean Algebra and Graph Theory that are essential to the study of Computer Science in great detail.

The book is useful for the students of BSc (CS), MSc (CS), BE, BTech, BCA, MCA.

Salient Features

- 328 Solved problems
- 316 Exercise problems
- 255 Objective and short answer questions

Benefits

Covers the syllabi of most Indian universities.

Contents

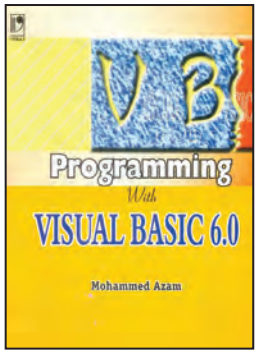
1. Set Theory, 2. Matrix Algebra, 3. Mathematical Logic, 4. Induction, Recursion and Recurrence Relations, 5. Algebraic Systems, 6. Lattices and Boolean Algebra, 7. Graph Theory, 8. Formal Languages and Automata

N Ch S N Lyengar is Professor, Department of Mathematics, Vellore Institute of Technology (Deemed University), Vellore.

V M Chandrasekaran is Assistant Professor, Department of Mathematics, Vellore Institute of Technology (Deemed University), Vellore.

K A Venkatesh is Head, Department of Computer Applications, Alliance Business Academy, Bangalore.

P S Arunachalam is Senior Lecturer, Department of Mathematics, SRM Engineering College, Chennai.



Programming with Visual Basic 6.0

Mohammed Azam

ISBN: 9788125909323
Price: ₹ 540 | Pages: 480
Size: 7.25" X 9.5" (Paperback)

Instructor's Resource available

About the Book

Simple, user-friendly and well-written, this book is designed for those who are learning Visual Basic for the first time. This book guides readers through the steps involved in creating a simple application and covers various issues such as Interface Design, Database Design, Distributing an Application, etc. It also demystifies topics like ActiveX and adopts a simple, easy-to-follow approach throughout the book.

Salient Features

- Includes small, easy-to-do programs for day-to-day activities
- Explains MDI form in detail
- Discusses ADO and how it can be used
- Covers debugging and how to reduce the number of errors in a program
- Includes ActiveX and how to build ActiveX controls
- Explains how to create and use an invoice programs a model for other development
- Exercises in each chapter and after every section

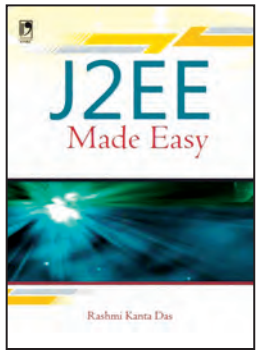
Benefits

Useful for those who are learning Visual Basic for the first time.

Contents

Part One: 1. Welcome to Visual Basic (VB), 2. Creating An Application, 3. 2nd Look a Ide, Forms and Controls, 4. Variables in Visual Basic, 5. Writing Code in Visual Basic, 6. Working with Files, 7. Menus, 8. Multiple Document Interface Application, 9. Debugging Tips, 10. The Common Dialog Control, 11. Introduction to Databases, 12. Working with the Data Control, 13. Data Access Objects, 14. Additional Controls Available in Visual Basic 6.0, 15. Activex Data Objects, 16. Crystal and Data Reports, 17. Distributing Your Application, Part Two: 18. Activex, 19. Activex and Web Pages, 20. Activex Documents, Part Three: 21. An Invoicing Program, 22. Developing An Application • Appendices • Glossary • Index

Mohammed Azam is Technical Director, Emsquare, a software development company operating in Chennai and Bangalore. He has more than a decade of industry experience in the field of Information Technology in various divisions like Software development, Training, Marketing and Customer Support.



J2EE Made Easy

Rashmi Kanta Das

ISBN: 9789325976207
Price: ₹ 495 | Pages: 440
Size: 6.75" X 9.5" (Paperback)

About the Book

Java technology is rapidly becoming the standard tool for building dynamic web sites and connecting web front ends to databases and applications on a server. However, very few books are available on servlet and JSP, especially those that cover recent versions of the specification, advanced techniques or reflect on real-world experience. This book intends to bridge this gap.

Extensive coverage of:

- JDBC architecture and the different types of drivers,
- Basic SQL commands
- RowSet and transaction management
- Servlet API and its life cycle
- Form validation
- ServletConfig and ServletContext
- Servlet chaining and session tracking
- JSP and its life cycle
- JSP tag and JSTL tag
- JSP chaining and session tracking

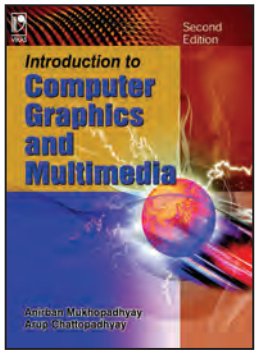
Benefits

Covers servlet and JSP, which are useful for programmers.

Contents

Unit-I: JDBC: 1. Basics of JDBC, 2. Working with SQL and PI/SQL, 3. Introducing JDBC API, 4. Working with Statements and Result Sets, 5. Advanced JDBC Concepts, Unit-II: Web Applications, 6. Introduction to Web Applications, 7. Introduction to Servlets, 8. Understanding Request Processing and Http, 9. Servlet Communication, 10. Servlet Chaining, 11. Session Tracking, 12. File Uploading, Unit-III: Java Server Pages: 13. Introducing Java Server Pages, 14. JSP Lifecycle and Scripting Elements, 15. Working with Directive Tags, 16. Describing Java Bean and Action Tags in JSP, 17. Working with Custom Tags and Standard Tag Library (JSTL), 18. JSP Communication, 19. JSP Chaining and Session Tracking

Rashmi Kanta Das holds a Master's degree in Business Administration from Utkal University, Orissa. He is a Sun Certified Java Programmer, Web Component Developer, Business Component Developer and a Microsoft Certified Systems Engineer. Presently, he is the Head, Center of Excellence for Complete Java at Lakshya, Bhubaneswar — one of the most reputed institutions in India in the field of Java programming. He has more than 10 years of experience in working with Java and finding innovative solutions to the challenges faced in the software industry.



Introduction to Computer Graphics and Multimedia, 2e

Anirban Mukhopadhyay & Arup Chattopadhyay

ISBN: 9788125919315
Price: ₹ 595 | Pages: 528
Size: 6.75" X 9.5" (Paperback)

About the Book

Second edition of the book is the result of a fresh study of the latest in the technology and syllabi of various universities. Thus, it intends to make students up-to-date in knowledge, and to make the book more comprehensive and relevant at the all-India level. It now covers the Computer Graphics and Multimedia paper for BE/B.Tech (Computer Science & Engineering), BSc (Comp. Sc.), BCA and MCA curricula of AICTE, JNTU, BPUT, WBUT, Anna, VTU, PTU, Mumbai, Osmania, REC-Trichy, Bangalore, and many other universities and institutes.

The book has undergone some structural changes, like two new chapters have been added on Hidden Lines and Surfaces (as chapter 6), and Illumination and Shading (as chapter 8), while the chapter on Graphics Mathematics has been converted into an appendix. In chapter 6, the algorithms and methods of realistic display of 3D objects with removal of invisible lines, surfaces or volumes from a scene have been described. Chapter 8 addresses the techniques of modeling the effect of light interacting with physical objects to generate realistic intensity profile in a computer generated scene.

The chapter on Multimedia has virtually been rewritten including Video, and MPEG video and JPEG image compression schemes, image processing technique, audio compression, MPEG audio and Virtual Reality. The basic techniques and mathematical basis for advanced Animation and Morphing have been explained in greater detail.

Salient Features

Presents how modern graphic systems work. Provides an illustrated explanation of the working of different graphic algorithms that form the backbone of graphic packages. Tailor-made for the compulsory paper of Computer Graphics. Large number of review question and detailed Appendices containing GUI, Interactive picture construction, Interaction with mouse, Model projects, Graphics Maths are of tremendous help.

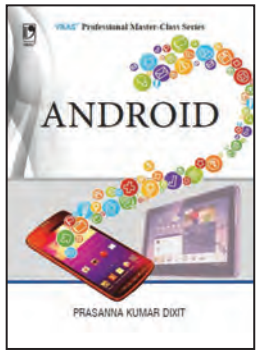
Contents

1. Introduction, 2. Output Primitives, 3. Curves, 4. 2D Transformation, 5. 3D Transformation and Projection, 6. Hidden Lines and Surfaces, 7. Graphic Procedures–Clipping and Filling, 8. Illumination and Shading, 9. Multimedia • Annexures: i) Graphical User Interface (GUI), ii) Interactive Picture Construction, iii) Interaction with Mouse, iv) Model Projects, v) Graphics Mathematics • Index

Anirban Mukhopadhyay is currently Lecturer, RCC Institute of Information Technology, Kolkata. He was formerly associated with the CAD group of DOEACC Centre, Kolkata (erstwhile RCC Calcutta) and had been working on computer aided design and analysis in various industrial and research projects. He has over 11 years of experience in teaching the students of B.Tech, MCA, BCA and DOEACC and also of autodesk-certified CAD courses. He obtained his bachelor´s degree in Civil Engineering from Jadavpur University.

Arup Chattopadhyay is currently Head, Scientific and Technical Application Group, DOEACC Centre, Kolkata. He is the co-ordinator of the course on Computer Aided Design and Drafting using AutoCAD/AutoLISP. He provides CAD consultancy to the engineering industry and has several years of experience in teaching CAD, FEA and other computer-based applications of engineering. He obtained his master's in Structural Engineering from Jadavpur University.

About the Book



Android

Prasanna Kumar Dixit

ISBN: 9789325977884
Price: ₹ 450 | Pages: 384
Size: 6.75" X 9.5" (Paperback)

About the Book

Android is a movement that has transferred data from laptop to hand-held devices like mobiles. Though there are alternate technologies that compete with Android, but it is the front runner in mobile technology by a long distance. Good knowledge in basic Java will help you to understand and develop Android technology and apps. Many universities in India and across the world are now teaching Android in their syllabus, which shows the importance of this subject. This book can be read by anyone who knows Java and XML concepts. It includes a lot of diagrams along with explanations to facilitate better understanding by students. This book aptly concludes with a project that uses Android, which will greatly benefit students in learning the practical aspects of Android.

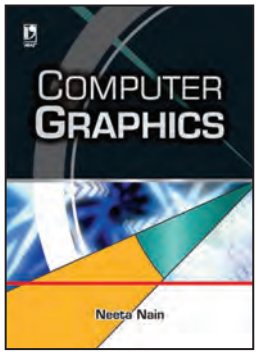
Key Features

- Instructions in designing different Android user interfaces
- Thorough explanations of all activities
- JSON
- Android-based project to aid practical understanding

Contents

1. Introduction to Android Operating System, 2. Configuration of Android Environment, 3. Create the First Android Application, 4. Android User Interface, 5. Designing your User Interface with View, 6. Activity, 7. Multimedia, 8. SQLite Database in Android, 9. Telephoning and Messaging, 10. Telephoning and Messaging

Prasanna Kumar Dixit, Director of Interface Software, Bhubaneswar.



Computer Graphics

Neeta Nain

ISBN: 9789325972612
Price: ₹ 495 | Pages: 472
Size: 6.75" X 9.5" (Paperback)

About the Book

This book adopts a conceptual approach to computer graphics, with emphasis on mathematical concepts and their applications. It introduces an abstract paradigm that relates the mathematical concepts with computer graphic techniques and implementation methods. This model is intended to help the reader understand the mathematical concepts and their practical use. However, mathematical complexity has not been allowed to dominate. The haul mark of the book is its profuse solved examples which aid in the understanding of mathematical concepts.

The text is supplemented with introduction to various graphics standards, animation, multimedia techniques and fractals. These topics are of immense use in each of the three visual disciplines: modeling transformations, projections and multi-view geometry for computer vision. Geometry of lines, vectors and planes is essential for any geometric computation problem, light and illumination for image-based rendering, and hidden surface removal. Almost every chapter has the working source code to illustrate the concepts, which could be written and used as small programs for better understanding of the topics. A concise appendix of open source OpenGL is also included to showcase programming concepts of computer graphics and visualization.

The text is completely platform-independent and the only prerequisite is the knowledge of coordinate geometry and basic algebra. It will be useful both as a text and reference, thus it can easily be used by novices and experienced practitioners alike.

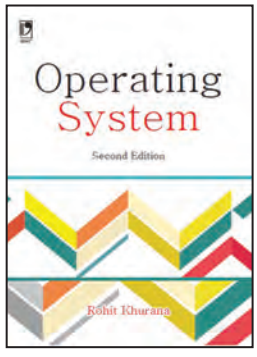
Key Features

- Comprehensive text covering the complete syllabi requirements of most Indian universities.
- Reader-friendly language and presentation of difficult concepts in the simplest form
- Focuses on practical examples on design problems and experimentation problems
- Solved examples and unsolved exercises provided to make understanding and practicing easier
- Contains an appendix on basic mathematical functions for computer graphics

Contents

1. Introduction to Computer Graphics, 2. Computer-graphic Primitives, 3. Scan Conversion, 4. Transformations, 5. Projections, 6. Hidden Surface Removal, 7. Curves, 8. Light Illumination and Shading, 9. Evaluating Simple Illumination Model for a Polygon • Model Test Papers • *Appendices: A. Vectors and Matrices, B. A Quick Start with OpenGL and C*

Neeta Nain has taught computer graphics for over 20 years. She is a prolific writer having written over 30 research papers for various international journals and conferences.



Operating System, 2e

Rohit Khurana

ISBN: 9789325975637
Price: ₹ 495 | Pages: 448
Size: 6.75" X 9.5" (Paperback)

About the Book

The book *Operating System* by Rohit Khurana is an insightful work that elaborates on fundamentals as well as advanced topics of the discipline. It offers an in-depth coverage of concepts, design and functions of an operating system irrespective of the hardware used. With illustrations and examples the aim is to make the subject crystal clear and the book extremely student-friendly. The book caters to undergraduate students of most Indian universities, who would find subject matter highly informative and enriching. Tailored as a guide for self-paced learning, it equips budding system programmers with the right knowledge and expertise. The book has been revised to keep pace with the latest technology and constantly revising syllabuses. Thus, this edition has become more comprehensive with the inclusion of several new topics. In addition, certain sections of the book have been thoroughly revised.

Key Features

- Case studies of Unix, Linux and Windows to put theory concepts into practice
- A crisp summary for recapitulation with each chapter
- A glossary of technical terms
- Insightful questions and model test papers to prepare for the examinations

New in this Edition

- More types of operating system, like PC and mobile; Methods used for communication in client-server systems
- New topics like: Thread library; Thread scheduling; Principles of concurrency, Precedence graph, Concurrency conditions and Sleeping barber problem; Structure of page tables, Demand segmentation and Cache memory organization; STREAMS; Disk attachment, Stable and tertiary storage, Record blocking and File sharing; Goals and principles of protection, Access control matrix, Revocation of access rights, Cryptography, Trusted systems, and Firewalls

Contents

1. Introduction to Operating System, 2. Process Management, 3. Threads, 4. CPU Scheduling, 5. Process Synchronization, 6. Deadlock, 7. Memory Management Strategies, 8. Virtual Memory, 9. I/O Systems, 10. Mass-Storage Structure, 11. File Systems, 12. Implementation of File System, 13. Protection and Security, 14. Multiprocessor and Distributed Operating Systems • *Case Study: UNIX* • *Case Study: Linux* • *Case Study: Windows*

Rohit Khurana is the Founder and CEO of ITL Education Solutions Limited (ITLESL) and has authored more than thirty-five best-selling textbooks.

Computer Organization and Architecture

P N Basu

ISBN: 9788125939917
Price: ₹ 360 | Pages: 304
Size: 6.75" X 9.5" (Paperback)

About the Book

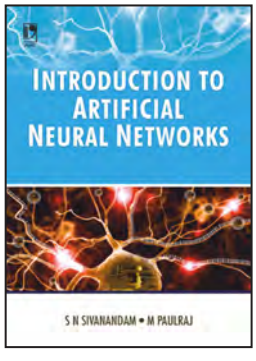
The book covers the syllabi of Computer Organization and Architecture for most of the Indian universities and colleges. The author has carefully arranged the chapters and topics using Education Technology and Courseware Engineering Principles, with proper planning to help self-paced as well as guided learning. Large numbers of examples, solved problems and exercises have been incorporated to help students strengthen their base in the subject. A number of multiple choice questions have been included with answers and explanatory notes. The basic principles have been explained with appropriate lucid descriptions supported by explanatory diagrams and graphics. The advanced principles have been presented with in-depth explanation and relevant examples.

Key Features

- Lucid description of theories and principles arranged from basics to advanced
- Multiple choice questions answered with explanatory notes
- An extensive number of solved problems
- Large number of examples appropriately placed throughout the text
- Objectives expressed before each chapter for self-assessment by students
- Summary and exercises (with solutions of typical problems) at the end of each chapter

Contents

P N Basu is working as a professor in the School of Education Technology, Jadavpur University.



Introduction to Artificial Neural Networks

S N Sivanandam & M Paulraj

ISBN: 9788125914259
Price: ₹ 395 | Pages: 236
Size: 6.25" X 9.5" (Paperback)

About the Book

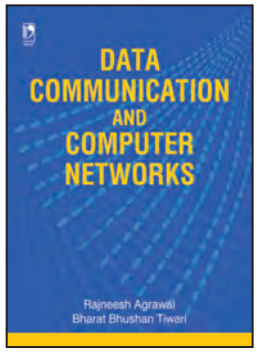
This fundamental book on Artificial Neural Networks has its emphasis on clear concepts, ease of understanding and simple examples. Written for undergraduate students, the book presents a large variety of standard neural networks with architecture, algorithms and applications.

Key Features

- 148 short questions and answers
- 114 review questions
- Includes probabilistic cognitron, neocognitron, optical and holographic networks
- Features control problem identification and training

Contents

S N Sivanandam, former Professor and Head, Department of Electrical and Electronics Engineering and Computer Science Engineering, PSG College of Technology, Coimbatore.



Data Communication and Computer Networks

Rajneesh Agarwal & Bharat Bhushan Tiwari

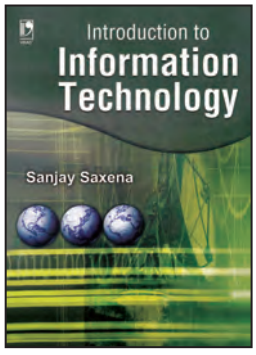
ISBN: 9788125915973
Price: ₹ 575 | Pages: 408
Size: 7.25" X 9.5" (Paperback)

About the Book

Data Communication and Computer Networks deals with various aspects of the subject vis-à-vis the emerging trends in network-centric information technology. It provides the reader with an in-depth framework of the fundamental concepts. Networking involves different kinds of personal computers, the operating system, the network adapter, the adapter drivers, cabling, and the protocols connecting these items. Likewise, there are many techniques of data communication such as modulation, multiplexing and analog to digital conversion. Constant demand from IT professionals and individuals leads to rapid and unbounded growth of both data communications and networks in terms of better applications and improved opportunities. This book provides a good learning platform to the people who need to be skilled without going into the details of computer programming. An attempt has been made to explain the underlying concepts to lead students and professionals from the hardware level right up to the application level. Most currently relevant areas have been covered. A study of them will encourage inquisitiveness about the concepts, tools, technologies and applications. There are 14 chapters and an elaborate glossary for quick reference. Chapters have been organised independently with clearly set out links with previous chapters. Data communication and computer networks are extremely exciting fields and therefore a good amount of emphasis has been put to prepare objective questions so that the student may enjoy the exercises in a most effective way to test his/her understanding of the concepts.

Contents

Rajneesh Agrawal & Bharat Bhushan Tiwari are working as senior scientists in the Department of Information Technology under the Ministry of Communications and Information Technology.



Introduction to Information Technology

Sanjay Saxena

ISBN: 9788125928577
Price: ₹ 475 | Pages: 404
Size: 7.25" X 9.5" (Paperback)

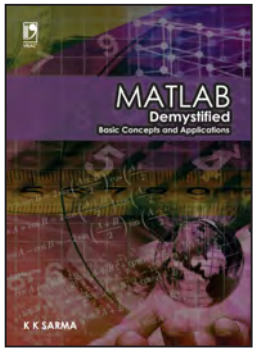
About the Book

This book is designed to teach the basics of Information Technology specially to the students of business management. It is based on the syllabuses of undergraduate courses of many Indian universities. It is so organized that one can learn a great deal simply by reading the text carefully and following the step-by-step instructions given with it. One does not need any previous knowledge of computers — all that is needed is access to a computer and willingness to learn.

Contents

Part-1: Introduction: 1. Introduction to Computers, 2. History of Computers, 3. Basic Anatomy of Computers, Part-II: Networking: 4. Networking, Part-III: Word Processing: 5. Microsoft Windows, 6. Word Processing, Part-IV: Spreadsheet Package: 7. Spreadsheet Package, Part-V: Internet & Multimedia: 8. Internet Basics, 9. Starting Internet, 10. E-Mails, 11. Internet Chat, 12. Introduction to Web Design, 13. Multimedia

Sanjay Saxena is an international consultant with over 23 years of experience and has worked on several computerization and MIS projects in India and abroad. He is a qualified cost and management accountant.



MATLAB: Demystified Basic Concepts and Applications

K K Sarma

ISBN: 9788125937128
Price: ₹ 375 | Pages: 352
Size: 6.75" X 9.5" (Paperback)

Instructor's Resource available

About the Book

A book with a simple and lucid description of different utilities and resources available in MATLAB, making it a wonderful aid for people in academics and industry. This book efforts here is to help the fledgling learner know the basic ideas and principles behind programming in MATLAB and the application of the vast storehouse of tools available in the library and supporting documentation.

Key Features

- Detailed coverage of fundamentals of programming, tools and resources related to Mathematics, Statistics, Signals and System, Image Processing, Artificial Neural Networks, Simulink, etc., in MATLAB
- Extensive treatment of methods and techniques required to generate graphics in MATLAB as effective tools of presentation
- Steps to formulate graphical user interfaces as an aid to application development
- Solved examples, programming assignments, list of utilities and summary at the end of the chapter
- Over 500 worked-out examples related to fundamentals of MATLAB

Contents

1. Introduction - Getting Started, 2. Programming with MATLAB, 3. Conditional Statements in MATLAB, 4. Graphics with MATLAB, 5. Graphical User Interfaces with MATLAB, 6. Functions in MATLAB, 7. Calculus and MATLAB, 8. Statistics and MATLAB, 9. Signals-Systems and MATLAB, 10. Digital Image Processing and MATLAB, 11. Artificial Neural Networks and MATLAB, 12. Simulink

K K Sarma is a Lecturer in the Department of Electronics and Communication Technology, Guwahati University.

Fundamentals of Computing and Programming in C

T Jeyapoovan

ISBN: 9789325981096
Price: ₹ 550 | Pages: 576
Size: 6.75" X 9.5" (Paperback)

About the Book

Fundamentals of Computing and Programming in C is specifically designed for first year engineering students covering the syllabus of various universities. It provides a comprehensive introduction to computers and programming using C language. The topics are covered sequentially and blended with examples to enable students to understand the subject effectively and imbibe the logical thinking required for software industry applications.

Key Features

- Foundations of computers
- Contains logical sequence of examples for easy learning
- Efficient method of program design
- Plenty of solved examples
- Covers simple and advanced programming in C

Contents

Part-I: Fundamentals of Computing: 1. Introduction to Computers, 2. Number Systems, 3. Planning a Computer Program, 4. Problem Solving and Office Automation, 5. Introduction to Programming Languages, Part-II: C Programming: 6. Introduction to Programming, 7. Fundamentals of C Language, 8. Input/Output Functions and Statements, 9. Control Statements in C, 10. Loop Control Structures in C, 11. Arrays and Subscripted Variables, 12. String Manipulations in C, 13. Functions in C, 14. Structures and Unions, 15. Pointers, 16. Files, 17. C Preprocessor and Command Line Arguments, 18. Linked List, Stack and Queue, Part-III: Computer Lab Programs

T Jeyapoovan, Professor, Hindustan Institute of Technology and Science, Chennai

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CIVIL ENGINEERING

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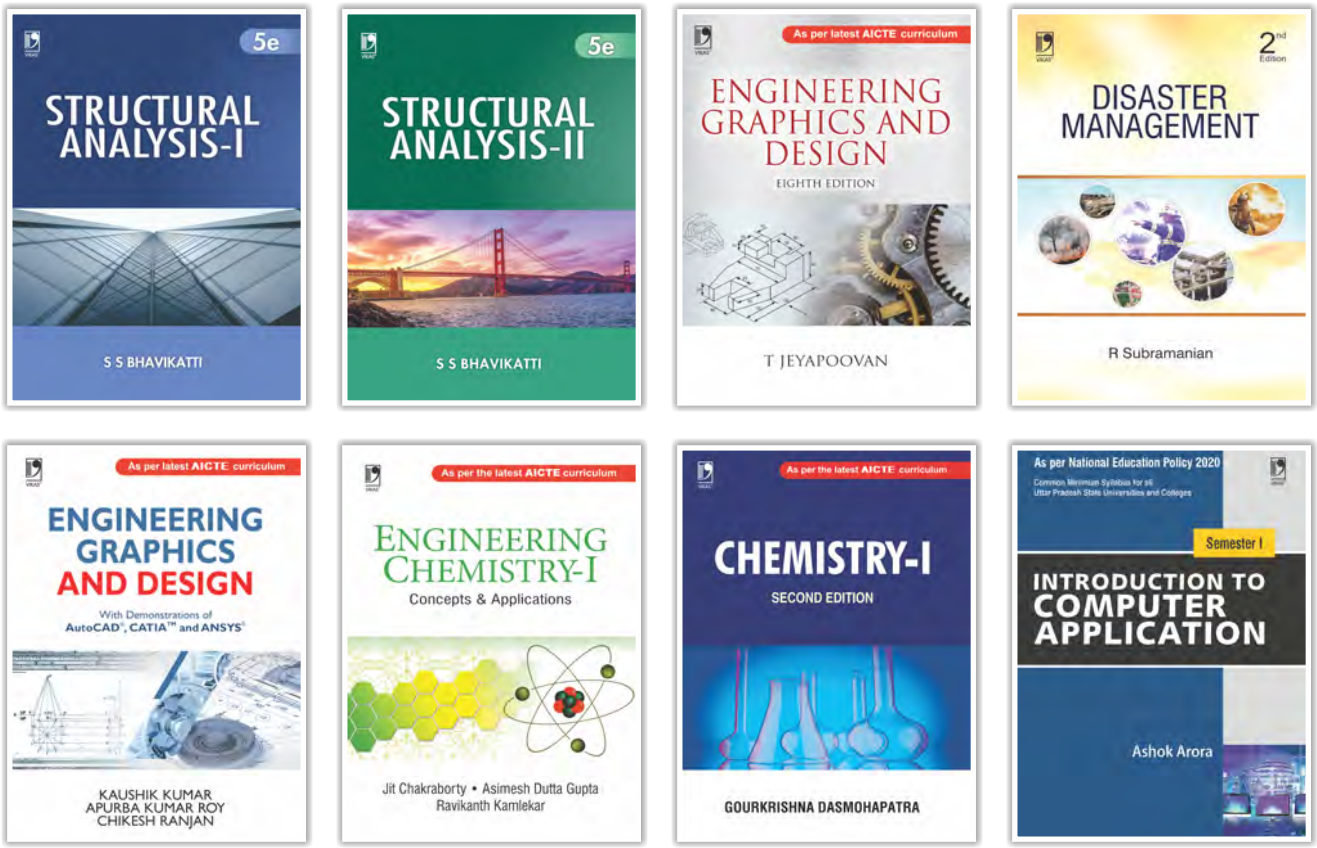

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