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# Jntu Anantapur Mechanical Engineering Spectrum

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*Engineering Mathematics-II* S. Chand Publishing

Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book

gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

Theory of Machines PHI Learning Pvt. Ltd.

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This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples. It is designed for first-year engineering students of all branches. The book is divided into seven modules. A topic is introduced in each chapter of a module with brief explanations and necessary pictorial views. Then it is discussed in detail through a number of worked-out examples, which are explained using step-by-step procedure and illustrating drawings. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and sections of them are well explained in Module C. Module D deals with intersection of surfaces and their developments. Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique

projection and perspective projections. Module F covers the fundamentals of machine drawing. Finally, in Module G the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. Key Features : Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and university questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

Gas Turbines and Jet Propulsion  
Phlogiston Press

Various measures of information are discussed in first chapter. Information rate, entropy and mark off models are presented. Second and third chapter deals with source coding. Shannon's

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encoding algorithm, discrete communication channels, mutual information, Shannon's first theorem are also presented. Huffman coding and Shannon-Fano coding is also discussed. Continuous channels are discussed in fourth chapter. Channel coding theorem and channel capacity theorems are also presented. Block codes are discussed in chapter fifth, sixth and seventh. Linear block codes, Hamming codes, syndrome decoding is presented in detail. Structure and properties of cyclic codes, encoding and syndrome decoding for cyclic codes is also discussed.

Additional cyclic codes such as RS codes, Golay codes, burst error correction is also discussed. Last chapter presents convolutional codes. Time domain, transform domain approach, code tree, code trellis, state diagram, Viterbi decoding is discussed in detail. *Innovative Technologies for the Treatment of Industrial Wastewater* Engineering Physics (For 1st Year of JNTU, Anantapur) In the four previous editions the author presented a text firmly grounded in the mathematics that engineers and scientists must understand and know how to use. Tapping into decades of teaching at the US Navy Academy and the US Military Academy and serving for twenty-five years at (NASA) Goddard Space

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Flight, he combines a teaching and practical experience that is rare among authors of advanced engineering mathematics books. This edition offers a smaller, easier to read, and useful version of this classic textbook. While competing textbooks continue to grow, the book presents a slimmer, more concise option. Instructors and students alike are rejecting the encyclopedic tome with its higher and higher price aimed at undergraduates. To assist in the choice of topics included in this new edition, the author reviewed the syllabi of various engineering mathematics courses that are taught at a wide variety of schools. Due to time constraints an instructor can select perhaps three to four topics from the book, the most likely being ordinary differential equations, Laplace transforms, Fourier series and separation of variables to solve the wave, heat, or Laplace's

equation. Laplace transforms are occasionally replaced by linear algebra or vector calculus. Sturm-Liouville problem and special functions (Legendre and Bessel functions) are included for completeness. Topics such as z-transforms and complex variables are now offered in a companion book, *Advanced Engineering Mathematics: A Second Course* by the same author. MATLAB is still employed to reinforce the concepts that are taught. Of course, this Edition continues to offer a wealth of examples and applications from the scientific and engineering literature, a highlight of previous editions. Worked solutions are given in the back of the book.

C and Data Structures Jones & Bartlett Learning  
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

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practiced in the application of engineering practices in each field.

Engineering Physics (For 1st Year of JNTU, Anantapur) PHI Learning Pvt. Ltd.

This book introduces students to the basics of computers, software and internet along with how to program computers using the C language. It is intended for an introductory course that gives beginning engineering and science students a firm rooting in the fundamental principles of computers and information technology, and also provides invaluable insights into key concepts of computing through development of skills in programming and problem solving using C language. To this end, the book is eminently suitable for the first-year engineering students of all branches and MCA students, as per the

prescribed syllabus of several universities. C is a difficult language to learn if it is not methodically introduced. The book explains C and its basic programming techniques in a way suitable for beginning students. It begins by giving students a solid foundation in algorithms to help them grasp the overall concepts of programming a computer as a problem-solving tool. Simple aspects of C are introduced first to enable students to quickly start writing programs. More difficult concepts in the latter parts of the book, such as pointers and their use, have been presented in an accessible manner making the learning of C an exciting and interesting experience. The methodology used is to illustrate each new concept with a program and emphasize a good style in programming to allow students

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to gain sufficient skills in problem solving. KEY FEATURES Self-contained introduction to both computers and programming for beginners All important features of C illustrated with over 100 examples Good style in programming emphasized Laboratory exercises on applications of MS Office, namely, Word processing, Spreadsheet, PowerPoint are included.

Dictionary of Mechanical Engineering Firewall Media Versailles is the story of an expansive spirit locked in a pretty body and an impossible moment in history. As the novel begins, fourteen-year-old Marie Antoinette is traveling from Austria to France to meet her fiancé, the mild, abstracted Louis. He will become the sixteenth Louis to reign in France, and Antoinette will be his queen, hemmed in by towering hairdos, the xenophobic suspicion of her subjects, the misogyny of her detractors, the larger-than-life figures

of Mirabeau, Du Barry, Robespierre, and the manifold twists and turns of the palace she calls home. The novel moves from room to room, from garden to fountain, occasionally breaking into playlets in which we glimpse characters struggling to mind their step in the great ballroom of the world. Driving our tour is the relentless engine of time, that friend to youth, for whom anything is possible. Antoinette gives birth to four children, two of whom will outlive her; she falls in love; she dies at the guillotine. A meditation on time and the soul's true journey within it, Versailles is at once wittily entertaining and astonishingly wise.

A HEAT TRANSFER TEXTBOOK S. Chand Publishing  
Engineering Mathematics-II  
Engineering Drawing And Graphics Cambridge University Press  
Engineering Mathematics-I  
COMPUTER BASICS AND C PROGRAMMING Springer Science & Business Media  
Probability and Statistics & Complex Variables

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## ENGINEERING GRAPHICS FOR DEGREE

### Firewall Media

The Present Book Is Not The Revised Version, A Patch Work Of The Old Book. It Is Originally Designed To Meet The Specific Needs Of The New Syllabus Of Jntu For The Students Of B.Tech. In Other Words It Is The Spontaneous Overflow Of Authors Experience With The Syllabus. Generating And Developing Scientific And Logical Approach Towards The Subject, Taking Into Consideration The Level Of Learners. \* Discussing The Subject Matter Adequately, Comprehensively And Thoroughly. \* Discussing Very Large Number Of Illustrations Concerning Practical Problems In Economics, Accountancy And Financial Analysis. Sufficient Diagrams, Graphs And Flow Charts Are Given To Substantiate The Subject Matter. \* Summarising Every Lesson Under The Heading

Summarised View Of The Lesson, So That Learners Could Make A Revision At A Glance. \* Classifying Assignments As Multiple Choice Questions For On Line Examination, Evaluation At A Glance And Self Assessment Questions. \* Mentioning Questions From Previous Managerial Economics And Principles Of Accountancy (Mepa) And Current Managerial Economics And Financial Analysis.

### Technical Publications

The textbook has been designed for the undergraduate students of Electrical and Electronics, Electronics and Communication, Computer Science, Electronics and Instrumentation, Information Technology and Electronics and Control Engineering. This book provides an accessible and practical treatment to many combinational and



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sequential circuits. Each topic has been discussed in sufficient depth to expose the fundamental principles, concepts, techniques which are necessary to understand the subject thoroughly. Salient Features of the Book Numerous worked-out examples highlight the need for intelligent approximation to achieve more accuracy in lesser time. Short answer questions at the end of each chapter help in easy understanding of the subject. Large number of review questions and unsolved problems to develop a clear understanding of basic principles. Previous GATE paper solutions are the unique feature of this book. Information Theory and Coding Pearson Education India Computer Fundamentals and Programming in C 2e is designed to serve as a textbook for students of engineering (BE/B Tech), computer applications

(BCA/MCA), and computer science (B Sc) for an introductory core course on computers and programming in C.

Electronic Devices and Circuits New Age International

Engineering Physics (For 1st Year of JNTU, Anantapur) S. Chand Publishing

Managerial Economics And Financial Analysis S. Chand Publishing

Intended as a textbook for “ applied ” or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with

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practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

Speaking about Science CRC Press

IT Essentials: PC Hardware and Software Lab

Manual, Fourth Edition Cisco Networking Academy

The only authorized Lab Manual for the Cisco

Networking Academy IT Essentials v4.1 course IT

Essentials: PC Hardware and Software Lab Manual is

a supplemental book that helps the students in the

Cisco® Networking Academy course prepare to take

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objectives). The hands-on labs, worksheets, and class

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Properties|Superconductivity|Laser|Fiber Optics  
|Nanotechnology|Review Questions|Multiple  
Choice Question

## A TEXTBOOK OF ENGINEERING CHEMISTRY Newnes

In this book, how to solve such type equations has been elaborately described. In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the  
Advanced Engineering Mathematics with

MATLAB S. Chand Publishing

Beginning with an overview of the basic concepts of computers, the book provides an exhaustive coverage of C programming constructs. It then focuses on arrays, strings, functions, pointers, user-defined data types, and files. In addition, the book also provides a chapter on linked lists - a popular data structure - and different operations that can be performed on such lists. Students will find this book an excellent companion for self-study owing to its easy-to-understand approach with plenty of programs complete with source codes, sample outputs, and test cases.