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# Jntu Anantapur Mechanical Engineering Spectrum

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TEXTBOOK OF FINITE  
ELEMENT ANALYSIS PHI  
Learning Pvt. Ltd.

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

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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.

**Information Theory and Coding** Regents/Prentice Hall

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

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<p>programming techniques in a both computers and 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 to gain sufficient skills in problem solving.</p> <p><b>KEY FEATURES</b> Self-contained introduction to</p>	<p>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.</p> <p><b><u>COMPUTER BASICS AND C PROGRAMMING</u></b></p> <p>Springer Nature</p> <p>This Book Presents A Systematic Account Of The Concepts And Principles Of Engineering Thermodynamics And The Concepts And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering.</p>
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This Book Will Meet The Requirements Of The Undergraduate Students Of Engineering And Technology Undertaking The Compulsory Course Of Engineering Thermodynamics. The Subject Matter Of Book Is Sufficient For The Students Of Mechanical Engineering/Industrial-Production Engineering, Aeronautical Engineering, Undertaking Advanced Courses In The Name Of Thermal Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable Language. The Book Is Written In SI System Of Units And Each Chapter Has Been Provided With Sufficient Number Of

Typical Numerical Problems Of Solved And Unsolved Questions With Answers.

Technical Writing and Professional Communication

Technical Publications  
This book comprises selected peer-reviewed proceedings of the International Conference on Applications of Fluid Dynamics (ICAFD 2018) organized by the School of Advanced Sciences, Vellore Institute of Technology, India, in association with the University of Botswana and the Society for Industrial and Applied Mathematics (SIAM), USA. With an aim to identify the existing challenges in the area of applied mathematics and mechanics, the book emphasizes the importance of

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establishing new methods and algorithms to address these challenges. The topics covered include diverse applications of fluid dynamics in aerospace dynamics and propulsion, atmospheric sciences, compressible flow, environmental fluid dynamics, control structures, viscoelasticity and mechanics of composites. Given the contents, the book is a useful resource for students, researchers as well as practitioners.

C and Data Structures

S. Chand Publishing

Optics|Crystal

Structures And X-Ray

Diffraction

|Principles Of Quantum

Mechanics And Electron

Theory |Semiconductors

|Magnetic

Properties|Dielectric

Properties|Superconduc

tivity|Laser|Fiber

Optics

|Nanotechnology|Review  
Questions|Multiple  
Choice Question

**Theory of Machines**

Springer Science &  
Business Media

This book covers  
the kinematics and  
dynamics of  
machinery topics.

It emphasizes the  
synthesis and  
design aspects and  
the use of computer-  
aided engineering.

A sincere attempt  
has been made to  
convey the art of  
the design process

to students in  
order to prepare  
them to cope with  
real engineering

problems in  
practice. This book  
provides up-to-date  
methods and  
techniques for

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analysis and synthesis that take full advantage of the graphics microcomputer by emphasizing design as well as analysis. In addition, it details a more complete, modern, and thorough treatment of cam design than existing texts in print on the subject. The author's website at <a href="http://www.designofmachinery.com">www.designofmachinery.com</a> has updates, the author's computer programs and the author's PowerPoint lectures exclusively for professors who adopt the book. Features Student-	friendly computer programs written for the design and analysis of mechanisms and machines. Downloadable computer programs from website Unstructured, realistic design problems and solutions <i>Advanced Engineering Mathematics with MATLAB</i> New Age International A comprehensive text based on the results of a scientific analysis of the communication needs of professionals. <i>Textbook of Engineering Mechanics</i> S. Chand
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Publishing	of importance to
The purpose of the	anyone learning
book is to acquaint	English. The book
those learning	should be useful to
English with the	all students who
vocabulary and	wish to perfect
particular forms of	their colloquial
address used in	and idiomatic
these various	English. It should
situations. For	also be valuable
example, how does	for those who feel
one order a meal in	the need for
a restaurant? What	additional
is the procedure to	vocabulary and
be followed	further practice
conversationally	with idiomatic
when buying tickets	forms.
for the theater or	<u>Fibrous Concrete</u>
shopping for	Cambridge
clothes? What are	University Press
the common	This book includes
expressions to be	selected, high-
used in making a	quality papers
telephone call?	presented at the
These are some of	International
the things the book	Conference on
teaches, and	Intelligent
naturally they are	Manufacturing and

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Energy Sustainability (ICIMES 2019) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad, India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability. Kinematics and Dynamics of Machinery McGraw-Hill Humanities, Social Sciences & World Languages This concise and clear introduction to the topic

requires only basic knowledge of calculus and linear algebra - all other concepts and ideas are developed in the course of the book. Lucidly written so as to appeal to undergraduates and practitioners alike, it enables readers to set up simple mathematical models on their own and to interpret their results and those of others critically. To achieve this, many examples have been chosen from various fields, such as biology, ecology, economics, medicine, agricultural,



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chemical,  
electrical,  
mechanical and  
process  
engineering, which  
are subsequently  
discussed in  
detail. Based on  
the author's  
modeling and  
simulation  
experience in  
science and  
engineering and as  
a consultant, the  
book answers such  
basic questions as:  
What is a  
mathematical model?  
What types of  
models do exist?  
Which model is  
appropriate for a  
particular problem?  
What are  
simulation,  
parameter  
estimation, and

validation? The  
book relies  
exclusively upon  
open-source  
software which is  
available to  
everybody free of  
charge. The entire  
book software -  
including 3D CFD  
and structural  
mechanics  
simulation software  
- can be used based  
on a free CAELinux-  
Live-DVD that is  
available in the  
Internet (works on  
most machines and  
operating systems).

**Probability and  
Statistics & Complex  
Variables** Elsevier

This book comprises  
select proceedings  
of the International  
Conference on  
Emerging Trends in

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Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

*A TEXTBOOK OF ENGINEERING CHEMISTRY* Springer Nature  
Probability and Statistics & Complex Variables  
**Body Language** New Age International  
Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It

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should guide the periodic review and updating of the curriculum.

Gas Turbines and Jet Propulsion CRC Press

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 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,

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the most likely being taught. Of course, 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

## **Engineering**

### **Mathematics-I S.**

Chand Publishing  
The Revised Edition  
Of A Widely Used

Book Contains  
Several New Topics  
To Make The Coverage  
More Comprehensive  
And Contemporary. \*

Highlights The Ozone  
Hole Problem And  
Related Steps To  
Modify The  
Refrigeration  
Systems. \* The  
Discussion Of Vapour

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Compression/Absorption Engineers Would Also  
 n Systems Totally Find It Very Useful.  
 Recast With A Special **Versailles** New Age  
 Emphasis On Eco- International  
 Refrigerants. \* Developed for use by  
 Application Oriented non-native speakers  
 Approach Followed of English enrolled  
 Throughout The Book in Technical Writing  
 And Energy and Communication  
 Efficiencyemphasised. courses. Technical  
 \* Several Real Life Writing and  
 Problems Included To Professional  
 Illustrate The Communication, 2/e,  
 Practical Viability places technical  
 Of The Systems writing in its  
 Discussed. \* context, showing  
 Additional Examples, students how to  
 Diagrams And Problems consider their  
 Included In Each purpose and their  
 Chapter For An Easier audience when  
 Grasp Of The writing reports,  
 Subject.With All memos, and  
 These Features, This correspondence.  
 Book Would Serve As A Formerly titled  
 Comprehensive Text Technical Writing  
 For Undergraduate and Professional  
 Mechanical Communication: A  
 Engineering Students. Handbook for  
 Postgraduate Students Nonnative Speakers,  
 And Practising the new edition

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features a case running throughout seven chapters, dynamically illustrating the writing process. The revision also provides complete coverage of the new computer technologies and the new attention to the intercultural concerns in today's business world. *Speaking about Science 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

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relentless engine of intelligence. time, that friend to Reinforcement youth, for whom learning, one of the anything is possible. most active research Antoinette gives areas in artificial birth to four intelligence, is a children, two of whom computational will outlive her; she approach to learning falls in love; she whereby an agent dies at the tries to maximize the guillotine. A total amount of meditation on time reward it receives and the soul's true while interacting journey within it, with a complex, Versailles is at once uncertain wittily entertaining environment. In and astonishingly Reinforcement wise.

### **Mathematical**

### **Modeling and**

### **Simulation S. Chand**

Publishing

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial

Sutton and Andrew

Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition,

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this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

**Emerging Trends in Mechanical Engineering**  
New Age International  
This book consists of peer-reviewed proceedings from the International Conference on Innovations in Mechanical Engineering (ICIME 2020). The



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contents cover latest research in all major areas of mechanical engineering, and are broadly divided into five parts: (i) thermal engineering, (ii) design and optimization, (iii) production and industrial engineering, (iv) materials science and metallurgy, and (v) multidisciplinary topics. Different aspects of designing, modeling, manufacturing, optimizing, and processing are discussed in the context of emerging applications. Given the range of topics covered, this book can be useful for students, researchers as well as professionals.

Closed-conduit Flow

S. Chand Publishing

Each concept is discussed from the basics and supported by sufficient mathematical background and worked examples. Suitable for individual or group learning, the book offers numerous end-of-chapter problems for study and review.