

Engineering Mathematics By Jaggi Mathur Teemallore

Unlike Many Engineering Mathematics Books, The New Edition Of This Comprehensive Applications-Oriented Book Uses Computer Programs In Almost Every Chapter To Demonstrate The Mathematical Concepts Under Discussion. Designed For Engineering Students As Well As Practicing Engineers And Scientists, The Book Has Hundreds Of Examples With In-Text Solutions. In Terms Of Content, It Covers The Entire Sequence Of Mathematical Topics Needed By The Majority Of University Programs, Including ODE, PDE, Complex Variables, Probability/Statistics, And Numerical Methods. The Authors Demonstrate How The Mathematical Concepts Will Be Used In Practical Applications Such As Fractals, Robotics, Circuits, Membrane Simulation, Collision Detection, Ray Tracing, Signal Processing, And More. A CD-ROM With The Source Code For The In-Text Computer Programs (Written In C) Includes Calculation Routines And Simulations.

This work is based on the experience and notes of the authors while teaching mathematics courses to engineering students at the Indian Institute of Technology, New Delhi. It covers syllabi of two core courses in mathematics for engineering students.

This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1–3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences, intertwining with each other for efficiency.

Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences

Mathematical Foundation of Computer Science

Special Functions of Mathematical Physics and Chemistry

Design And Analysis Of Steel Structures

A Textbook of Electrical Technology - Volume IV

Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A Manual in Engineering Chemistry comprising 12 experiments is appended at the end of the book

This book is a student guide to the applications of differential and integral calculus to vectors. Such material is normally covered in the later years of an engineering or applied physical sciences degree course, or the first and second years of a mathematics degree course. The emphasis is on those features of the subject that will appeal to a user of mathematics, rather than the person who is content to acquire good proficiency in algebraic manipulation that can be used in critically assessing the results obtained from using graphics calculators and algebraic software packages.

The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart environments and smart interactions, as well as information technology support for such government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies.

Engineering Mathematics Volume II

International Books in Print

Engineering Problems

Indian Books in Print

Production Technology

The book is a comprehensive work on Properties of Matter which introduces the students to the fundamentals of the subject. It adopts a unique 'ab initio' approach to the presentation of matter- solids, liquids and gasses- with extensive usage of Calculus throughout the book. For each topic, the focus is on optimum blend of theory as well as practical application. Examples and extensive exercises solved with the logarithms reinforce the concepts and stimulate the desire among users to test how far they have grasped and imbibed the basic principles. It primarily caters to the undergraduate courses offered in Indian universities.

Engineering Mathematics I: For WBUT is designed as per the specific requirements of the first year first semester paper offered to all the students of engineering and technology in West Bengal University of Technology. With an emphasis on problem- solving techniques, engineering application, as well as detailed explanation of the mathematical concept, this book will give the students a complete grasp of the mathematical skills that are needed by engineers. The focus on practical rather than theory ensures complete mastery over the topics covered.

Quantile regression is gradually emerging as a unified statistical methodology for estimating models of conditional quantile functions. By complementing the exclusive focus of classical least squares regression on the conditional mean, quantile regression offers a systematic strategy for examining how covariates influence the location, scale and shape of the entire response distribution. This monograph is the first comprehensive treatment of the subject, encompassing models that are linear and nonlinear, parametric and nonparametric. The author has devoted more than 25 years of research to this topic. The methods in the analysis are illustrated with a variety of applications from economics, biology, ecology and finance. The treatment will find its core audiences in econometrics, statistics, and applied mathematics in addition to the disciplines cited above.

Advanced Calculus

Control System Design

Engineering Mathematics

Federated Learning

DESIGN OF REINFORCED CONCRETE STRUCTURES

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Advances in discrete mathematics are presented in this book with applications in theoretical mathematics and interdisciplinary research. Each chapter presents new methods and techniques by leading experts. Unifying interdisciplinary applications, problems, and approaches of discrete mathematics, this book connects topics in graph theory, combinatorics, number theory, cryptography, dynamical systems, finance, optimization, and game theory. Graduate students and researchers in optimization, mathematics, computer science, economics, and physics will find the wide range of interdisciplinary topics, methods, and applications covered in this book engaging and useful.

Engineering Mathematics-III has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced mix of theory and solved problems, focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the students.

Goldfrank's Toxicologic Emergencies, Tenth Edition (ebook)

PCCDS 2020

Smart Systems and IoT: Innovations in Computing

Solution Manual to Engineering Mathematics

Engineering Mathematics - III

The standard-setting reference in medical toxicology—trusted as the leading evidencebased resource for poison emergencies A Doody's Core Title for 2017! For decades, one name has been synonymous with the most respected, rigorous perspectives on medical toxicology and the treatment of poisoned and overdosed patients: Goldfrank's Toxicologic Emergencies. Presented in full color, Goldfrank's delivers essential, patientcenteredcoverage of every aspect of poison management. The editors and authors are recognized as preeminent scholars in their specialties and provide unmatched coverage of all aspects of toxicologic emergencies, from pharmacology and clinical presentation to cutting-edge treatment strategies. Goldfrank's Toxicologic Emergencies, Tenth Edition begins with an examination of medical toxicology principles and techniques. It then reviews the biochemical, molecular, and pathophysiologic basis of toxicology, followed by an intense focus on toxicologic principles related to special patient populations. Features Case studies enhance your understanding of the clinical application of the text material Practical focus on the pathophysiologic basis of medical toxicology The Antidotes in Depth sections delivers the expertise of toxicologists across the world as they present treatments for critically ill poisoned and overdosed patients and allow you to easily identify key issues relating to the use of complex and often unfamiliar therapies The principles of risk management, medicolegal decision making, patient safety, post mortem toxicology and the assessment of ethanol induced impairment described in chapters and Special Considerations emphasize the interface between medical toxicology, the law, and quality care

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard 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, 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.

Engineering Mathematics - I: For WBUT

Applied Mathematics-III (AU,UP)

Discrete Mathematics and Applications

Privacy and Incentive

Elements of Properties of Matter

Third edition of one of our most successful undergraduate texts in physics.

Designed primarily as a text for the undergraduate students of civil engineering, this compact and well-organized text presents all the basic topics of reinforced concrete design in a comprehensive manner. The text conforms to the limit states design method as given in the latest revision of Indian Code of Practice for Plain and Reinforced Concrete, IS: 456 (2000). This book covers the applications of design concepts and provides a wealth of state-of-the-art information on design aspects of wide variety of reinforced concrete structures. However, the emphasis is on modern design approach. The text attempts to: • Present simple, efficient and systematic procedures for evolving design of concrete structures. • Make available a large amount of field tested practical data in the appendices. • Provide time saving analysis and design aids in the form of tables and charts. • Cover a large number of worked-out practical design examples and problems in each chapter. • Emphasize on development of structural sense needed for proper detailing of steel for integrated action in various parts of the structure. Besides students, practicing engineers and architects would find this text extremely useful.

A Textbook of Electrical Technology(Vol. IV)Multicolorpictures have been added to enhance the contenet value and give to the students an idea of what he will be dealing in realityand to bridge the gap between theory and practice.A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject.Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

Proceeding of SSIC 2019

A Computer Approach

Data Science and Analytics (with Python, R and SPSS Programming)

Theory and Design

Rectangular Dielectric Resonator Antennas

A world-wide bestseller renowned for its effective self-instructional pedagogy.

This book is intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics, laser, optical fibres and holography have been included. Physics is best learnt by conceptualization of the involved principles and to help the students conceptualize the involved principles, the text has been presented in an easy to understand manner. Large number of solved numericals have been included in the book to give a quantitative idea of the subject. Exercises and unsolved numericals have been given at the end of each chapter for practice. The book will also be useful for the students taking various competitive examinations.

Through previous editions, Peter O'Neil has made rigorous engineering mathematics topics accessible to thousands of students by emphasizing visuals, numerous examples, and interesting mathematical models. Advanced Engineering Mathematics features a greater number of examples and problems and is fine-tuned throughout to improve the clear flow of ideas. The computer plays a more prominent role than ever in generating computer graphics used to display concepts and problem sets, incorporating the use of leading software packages. Computational assistance, exercises and projects have been included to encourage students to make use of these computational tools.

The content is organized into eight parts and covers a wide spectrum of topics including Ordinary Differential Equations, Vectors and Linear Algebra, Systems of Differential Equations and Qualitative Methods, Vector Analysis, Fourier Analysis, Orthogonal Expansions, and Wavelets, Partial Differential Equations, Complex Analysis, and Probability and Statistics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

IAP Textbook of Vaccines

Quantile Regression

Vibrations and Waves in Physics

Reinforcement Learning, second edition

Mechanics

This book covers resonating modes inside device and gives insights into antenna design, impedance and radiation patterns. It discusses how higher-order modes generation and control impact bandwidth and antenna gain. The text covers new approaches in antenna design by investigation hybrid modes, H_Z and E_Z fields available simultaneously, and analysis and modelling on modes with practical applications in antenna design. The book will be prove useful to students, researchers and professionals alike.

The Book has been written completely as per AICTE recommended syllabus on "Data Sciences". SALIENT FEATURES OF THE BOOK: Explains how data is collected, managed and stored for data science. With complete courseware for understand the key concepts in data science including their real-world applications and the toolkit used by data scientists. Implement data collection and management. Provided with state of the arts subjectwise. With all required tutorials on R, Python and Bokeh, Anaconda, IBM SPSS-21 and Matplotlib.

This book provides a comprehensive and self-contained introduction to federated learning, ranging from the basic knowledge and theories to various key applications. Privacy and incentive issues are the focus of this book. It is timely as federated learning is becoming popular after the release of the General Data Protection Regulation (GDPR). Since federated learning aims to enable a machine model to be collaboratively trained without each party exposing private data to others. This setting adheres to regulatory requirements of data privacy protection such as GDPR. This book contains three main parts. Firstly, it introduces different privacy-preserving methods for protecting a federated learning model against different types of attacks such as data leakage and/or data poisoning. Secondly, the book presents incentive mechanisms which aim to encourage individuals to participate in the federated learning ecosystems. Last but not least, this book also describes how federated learning can be applied in industry and business to address data silo and privacy-preserving problems. The book is intended for readers from both the academia and the industry, who would like to learn about federated learning, practice its implementation, and apply it in their own business. Readers are expected to have some basic understanding of linear algebra, calculus, and neural network. Additionally, domain knowledge in FinTech and marketing would be helpful."

Advances Engineering Mathematics

Advanced Engineering Mathematics

Indian Book Industry

Engineering Chemistry

An Introduction

This book covers the theory and mathematics needed to understand the concepts in control system design. Chapter 1 deals with compensation network design. Nonlinear control systems, including phase-plane analysis and the Delta method are presented in chapter 2. The analysis and design aspects based on the state variable approach are presented in Chapter 3.

The discrete time control systems form the basis for the study of digital control systems in Chapter 4, covering the frequency response, root locus analysis, and stability considerations for discrete-time control systems. The stability analysis based on the Lyapunov method is given in chapter 5. The appendices include two US government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Dept. of Energy). Concepts in the text are supported by numerical examples. Features: • Covers the theory and mathematics needed to understand the concepts in control system design • Includes two U.S. government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Department of Energy)

A Textbook Of Applied Physics