

Text Engineering Mathematics By Venkataraman

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Practical Civil Engineering Taylor & Francis

Written with a strong pedagogical focus, this second edition of the book continues to provide an exhaustive presentation of the fundamental concepts of discrete mathematical structures and their applications in computer science and mathematics. It aims to develop the ability of the students to apply mathematical thought in order to solve computation-related problems. The book is intended not only for the undergraduate and postgraduate students of mathematics but also, most importantly, for the students of Computer Science & Engineering and Computer Applications. The introductory chapter presents an overview of the foundations of the subject, consisting of topics such as logic, set theory, relations, functions, algebraic structures, and graphs. The subsequent chapters provide detailed coverage of each of these topics as well as major areas of discrete mathematics such as combinatorics, lattices and Boolean algebras. Major applications such as computer models and computation, coding theory, cryptography and databases are dealt with in the final chapters of the book. In addition to this, a new chapter on matrices is included in this edition of the book, which forms a part of MCA course curriculum. The book is replete with features which enable the building of a firm foundation of the underlying principles of the subject and also provide adequate scope for testing the comprehension acquired by the students. Each chapter contains numerous worked-out examples within the main discussion as well as several chapter-end Supplementary Examples for revision. The Self-Test and Exercises at the end of each chapter provide large numbers of objective type questions and problems respectively. Answers to objective type questions and hints to exercises are also provided. All these pedagogic features, together with thorough coverage of the subject matter, make this book a readable text for beginners as well as advanced learners of the subject.

Vectors, Matrices, and Least Squares Engineering Mathematics First Year. Calculus and analytical geometry Engineering Mathematics
Since the original publication of this book, available computer power has increased greatly. Today, scientific computing is playing an ever more prominent role as a tool in scientific discovery and engineering analysis. In this second edition, the key addition is an introduction to the finite element method. This is a widely used technique for solving partial differential equations (PDEs) in complex domains. This text introduces numerical methods and shows how to develop, analyse, and use them. Complete MATLAB programs for all the worked examples are now available at www.cambridge.org/Moin, and more than 30 exercises have been added. This thorough and practical book is intended as a first course in numerical analysis, primarily for new graduate students in engineering and physical science. Along with mastering the fundamentals of numerical methods, students will learn to write their own computer programs using standard numerical methods.

Books of India John Wiley & Sons

This textbook is designed for students and industry practitioners for a first course in optimization integrating MATLAB® software.

Shaping Entrepreneurship Research PHI Learning Pvt. Ltd.

This graduate textbook covers topics in statistical theory essential for graduate students preparing for work on a Ph.D. degree in statistics.

This new edition has been revised and updated and in this fourth printing, errors have been ironed out. The first chapter provides a quick overview of concepts and results in measure-theoretic probability theory that are useful in statistics. The second chapter introduces some fundamental concepts in statistical decision theory and inference. Subsequent chapters contain detailed studies on some important topics: unbiased estimation, parametric estimation, nonparametric estimation, hypothesis testing, and confidence sets. A large number of exercises in each chapter provide not only practice problems for students, but also many additional results.

Textiles and Their Use in Microbial Protection S. Chand Publishing

A guide to MATLAB programming based on useful problems from science and engineering

A Computer Approach Kalaimaiyam UK

Shaping Entrepreneurship Research: Made, as Well as Found is a collection of readings designed to support entrepreneurship research. Focused on a worldview in which the future is open-ended and shapeable through human action - i.e. "made", this collection reframes entrepreneurship as a science of the artificial rather than as a natural or social science. It posits an open-ended universe for the making of human artifacts even if large swathes of nature and society are not within the control of the people making them. The book explores the notion of "made" through 25 foundational readings - classics from the history of ideas. Organized into five sections, each classic is individually introduced by the editors in one of five chapters written to explain its relevance and significance for a "made" view of entrepreneurship. Readers will benefit from exposure to these classic ideas and ongoing research in a variety of areas that fall somewhat outside the line-of-sight of traditional entrepreneurship research. Both individually and collectively, the readings suggest opportunities to ask new questions and develop new ways of framing entrepreneurship research that carry the discussion beyond worlds found to worlds made as well as found. The book is crafted to be valuable to three groups of scholars: young scholars with limited or no access to research infrastructure but with a desire to participate in deep conversations; young scholars with access to research infrastructure who also desire to listen-in on a different kind of conversation; and established entrepreneurship scholars who are contemplating an alternative set of foundational ideas to support their conversations in the discipline.

Introduction to Applied Linear Algebra CRC Press

This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

First Year. Calculus and analytical geometry PHI Learning Pvt. Ltd.

Engineering Mathematics First Year. Calculus and analytical geometry Engineering Mathematics PHI Learning Pvt. Ltd. Applied

Optimization with MATLAB Programming John Wiley & Sons

A FIRST COURSE CRC Press

This self-confessed introduction provides technical administrators and managers with a broad, practical overview of the subject and gives researchers working in different areas an appreciation of developments in nanotechnology outside their own fields of expertise.

5G Radio Access Networks PHI Learning Pvt. Ltd.

Materials and Technology for Sportswear and Performance Apparel takes a close look at the design and development of functional apparel designed for high-performance sportswear. Implementing materials, performance, technology, and design and marketing, the book examines this rapidly emerging textile market and outlines future directions and growing trends. The book begins by explaining how a comfort-driven focus has led the industry to embrace knitted fabric as a popular choice of constructional material. Using examples of leading brands, it outlines the basic terminology, structural details, and essential properties appropriate for performance apparel, especially for sportswear. This book describes the differences between woven and knitted structures, provides an understanding of fabric behavior and the characteristics of a functional garment, and outlines the importance of garment fit and consumer perception of garment comfort in its design and development. The authors present key research outcomes on the design and development of functional apparel designed for high-performance sportswear that explore smart materials, impact-resistant fabrics and pressure sensing. They consider the use of 3-D body scanning and its influence on pattern engineering for apparel product development; highlight the widely used fiber types for sportswear and the importance of fiber blends and their performance, and discuss the relevance of fabric structure and its interaction with the human body. The book also presents research on moisture management and temperature regulation and analyzes the performance and development of smart sportswear intended for monitoring health and performance for a range of end uses. A definitive guide detailing the future of functional clothing and sportswear, this book: Describes how to design and develop functional clothing for sportswear Reflects current research outcomes and industry requirements Clarifies with visual illustration, practical examples, and case studies an understanding of techniques and concepts Explores specifics of garment design such as fit, shape, function, fashion and design Focuses on a commitment to designing ethical and sustainable products

MATERIALS SCIENCE AND ENGINEERING Cambridge University Press

This book is primarily written according to the latest syllabus (July 2013) of Mahamaya Technical University, Noida for the third semester students of B.E./B.Tech/B.Arch. The textbook is for the Group B [ME, AE, MT, TT, TE, TC, FT, CE, CH, etc. Branches] of B.Tech III Semester. The Solved Question Paper of Dec. 2012 is included in the body of the text.

A Bridge to Mathematics Panchapakesan Venkataraman

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Focus on COVID-19 and Other Viruses Cambridge University Press

Praise for the First Edition ". . . an excellent textbook . . . well organized and neatly written." —Mathematical Reviews ". . . amazingly interesting . . ." —Technometrics Thoroughly updated to showcase the interrelationships between probability, statistics, and stochastic processes, Probability, Statistics, and Stochastic Processes, Second Edition prepares readers to collect, analyze, and characterize data in their chosen fields. Beginning with three chapters that develop probability theory and introduce the axioms of probability, random variables, and joint distributions, the book goes on to present limit theorems and simulation. The authors combine a rigorous, calculus-based development of theory with an intuitive approach that appeals to readers' sense of reason and logic. Including more than 400 examples that help illustrate concepts and theory, the Second Edition features new material on statistical inference and a wealth of newly added topics, including: Consistency of point estimators Large sample theory Bootstrap simulation Multiple hypothesis testing Fisher's exact test and Kolmogorov-Smirnov test Martingales, renewal processes, and Brownian motion One-way analysis of variance and the general linear model Extensively class-tested to ensure an accessible presentation, Probability, Statistics, and Stochastic

Processes, Second Edition is an excellent book for courses on probability and statistics at the upper-undergraduate level. The book is also an ideal resource for scientists and engineers in the fields of statistics, mathematics, industrial management, and engineering.

DISCRETE MATHEMATICS Routledge

While battery capacity is often insufficient to keep up with the power-demanding features of the latest mobile devices, powering the functional advancement of wireless devices requires a revolution in the concept of battery life and recharge capability. Future handheld devices and wireless networks should be able to recharge themselves automatically.

Indian Books in Print John Wiley & Sons

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

Applied Optimization with MATLAB Programming Routledge

This book is a well researched collection of the Indian Contemporary Artist and Art Maestro Dr.K.M.Gopal and his contribution to Indian Art. This volume includes several rare photographs, collected from Museums, Libraries, Artists and other individuals both in India and overseas. K.M.Gopal is a prodigy of Madras School of Arts and Crafts (Now, Government College of Fine Arts, Chennai), under the renowned sculptor Debi Prasad Roy Choudhury MBE (1899 – 1975). K.M.Gopal's extended research of Gaanaapathyam (aka Ganapathyam) has produced numerous forms of Ganapathi, the remover of obstacles. Inspired from the female form of Ganapathi (Ganeshwari), K.M.Gopal has produced the first known "Ardha Ganeshwari" in metal relief, which is a combined form of half male and half female forms of Ganapathi in one figure. In addition, K.M.Gopal has explored the deep interconnection of Yoga and Ganapathi, and discovered how Ganapathi is symbolically abstracting the first symbol of Yoga. His creation of the first 32 forms of Ganapathi and how they are related to the 32 stages of preparing the body towards spirituality in Yoga has got wide attention among the scholars, and researchers. Tirumalai Krishnamacharya and Purushottama Bilimoria are to name a few. The book also discusses about the true history of "Madras Art Movement" and how Artists' Handicrafts Association in Madras was formed, and how few artists in Cholamandal Artists' Village are manipulating the written history of Madras Art Movement, and how they air brushed eminent artists like Kanniappan, S.Dhanapal, Adimoolam and S.P.Jeyakar. This book also provides a glimpse of Kalaimaiyam UK, an art hub founded by K.M.Gopal in 1980s, and its vision of service in the UK.

Advanced Mathematics for Engineers and Scientists CRC Press

Essential Mechanics - Statics and Strength of Materials with MATLAB and Octave combines two core engineering science courses - " Statics " and " Strength of Materials " - in mechanical, civil, and aerospace engineering. It weaves together various essential topics from Statics and Strength of Materials to allow discussing structural design from the very beginning. The traditional content of these courses are reordered to make it convenient to cover rigid body equilibrium and extend it to deformable body mechanics. The e-book covers the most useful topics from both courses with computational support through MATLAB/Octave. The traditional approach for engineering content is emphasized and is rigorously supported through graphics and analysis. Prior knowledge of MATLAB is not necessary. Instructions for its use in context are provided and explained. It takes advantage of the numerical, symbolic, and graphical capability of MATLAB for effective problem solving. This computational ability provides a natural procedure for What if? exploration that is important for design. The book also emphasizes graphics to understand, learn, and explore design. The idea for this book, the organization, and the flow of content is original and new. The integration of computation, and the marriage of analytical and computational skills is a new valuable experience provided by this e-book. Most importantly the book is very interactive with respect to the code as it appears along with the analysis.

Introduction to Nanotechnology Springer Science & Business Media

This primary text and supplemental reference focuses on linear algebra, calculus, and ordinary differential equations. Additional topics include partial differential equations and approximation methods. Includes solved problems. 1992 edition.

Engineering Mathematics Volume Ii Penguin

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

Probability, Statistics, and Stochastic Processes CRC Press

C-RAN and virtualized Small Cell technology poses several major research challenges. These include dynamic resource allocation, self-configuration in the baseband pool, high latency in data transfer between radio unit and baseband unit, the cost of data delivery, high volume of data in the network, software networking aspects, potential energy savings, security concerns, privacy of user ' s personal data at a remote place, limitations of virtualized environment, etc. This book provides deeper insights into the next generation RAN architecture and surveys the coexistence of SDN, C-RAN and Small Cells solutions proposed in the literature at different levels.