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Turbine Technology Springer

This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.

Chemical Engineering Design Pearson Education India

Lie Groups, Differential Equations, and Geometry Springer

English Mechanic and World of Science Pearson Educaci ó n

Drawn from the 7th Glion Colloquium held in 2009, this volume considers the role of research universities in an innovation-driven global society. Whether in the "old world" of Europe and North America or in rapidly developing nations, the message is clear: innovation has become the key to prosperity and social well-being in a hypercompetitive global economy. Part I introduces several forms of economic, technological, and social innovation. Part II discusses agents of innovation from the points of view of a research university, industry, and national innovation policies. Part III presents university leaders from long-established and emerging institutions to compare how regional and institutional characteristics shape innovation strategies. Part IV focuses on approaches to innovation at national and institutional levels, including a U.S. approach to energy challenges, the shift of high-tech industry toward open innovation, and the challenges of creating world-class universities. Part V addresses the intellectual character of innovation and its relationship to the university's mission. Today's economy requires not only leadership in innovation but also educated citizens capable of applying technology, talent, and capital in new ways. Institutions of higher learning must collaborate with industry and government to create a climate and culture that enable innovation to thrive.

Qualitative Research Methods for the Social Sciences: Pearson New International Edition Harcourt Brace & Company (Australia)

If you can build websites with CSS and JavaScript, this book takes you to the next level—creating dynamic, database-driven websites with PHP and MySQL. Learn how to build a database, manage your content, and interact with users. With step-by-step tutorials, this completely revised edition gets you started with expanded coverage of the basics and takes you deeper into the world of server-side programming. The important stuff you need to know: Get up to speed quickly. Learn how to install PHP and MySQL, and get them running on both your computer and a remote server. Gain new techniques. Take advantage of the all-new chapter on integrating PHP with HTML web pages. Manage your content. Use the file system to access user data, including images and other binary files. Make it dynamic. Create pages that change with each new viewing. Build a good database. Use MySQL to store user information and other data. Keep your site working.

Master the tools for fixing things that go wrong. Control operations. Create an administrative interface to oversee your site.

Jobs to Be Done Economica Limited

This book collects a series of contributions addressing the various contexts in which the theory of Lie groups is applied. A preliminary chapter serves the reader both as a basic reference source and as an ongoing thread that runs through the subsequent chapters. From representation theory and Gerstenhaber algebras to control theory, from differential equations to Finsler geometry and Lepage manifolds, the book introduces young researchers in Mathematics to a wealth of different topics, encouraging a multidisciplinary approach to research. As such, it is suitable for students in doctoral courses, and will also benefit researchers who want to expand their field of interest.

Understanding Statistics in the Behavioral Sciences Getty Publications

An agriscience textbook exploring such topics as environmental technology, plant sciences, integrated pest management, interior and exterior plantscape, animal sciences, food science, and agribusiness.

Introduction to Information Retrieval Springer

Why do some innovation projects succeed where others fail? The book reveals the business implications of Jobs Theory and explains how to put Jobs Theory into practice using Outcome-Driven Innovation.

Fundamentals of Organic Chemistry Cambridge University Press

The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas.

Introductory to advanced engineering level students in electrical, communications and wireless network courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.

Signals & Systems MIT Press

This book is intended as an undergraduate text introducing matrix methods as they relate to engineering problems. It begins with the fundamentals of mathematics of matrices and determinants. Matrix inversion is discussed, with an introduction of the well known reduction methods. Equation sets are viewed as vector transformations, and the conditions of their solvability are explored. Orthogonal matrices are introduced with examples showing application to many problems requiring three

dimensional thinking. The angular velocity matrix is shown to emerge from the differentiation of the 3-D orthogonal matrix, leading to the discussion of particle and rigid body dynamics. The book continues with the eigenvalue problem and its application to multi-variable vibrations. Because the eigenvalue problem requires some operations with polynomials, a separate discussion of these is given in an appendix. The example of the vibrating string is given with a comparison of the matrix analysis to the continuous solution. Table of Contents: Matrix Fundamentals / Determinants / Matrix Inversion / Linear Simultaneous Equation Sets / Orthogonal Transforms / Matrix Eigenvalue Analysis / Matrix Analysis of Vibrating Systems PHP & MySQL: The Missing Manual Technical Publications

Based on over 30 years of successful teaching experience in this course, Robert Pagano's introductory text takes an intuitive, concepts-based approach to descriptive and inferential statistics. He uses the sign test to introduce inferential statistics, empirically derived sampling distributions, many visual aids, and lots of interesting examples to promote student understanding. One of the hallmarks of this text is the positive feedback from students -- even students who are not mathematically inclined praise the text for its clarity, detailed presentation, and use of humor to help make concepts accessible and memorable. Thorough explanations precede the introduction of every formula, and the exercises that immediately follow include a step-by-step model that lets students compare their work against fully solved examples. This combination makes the text perfect for students taking their first statistics course in psychology or other social and behavioral sciences. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Principles of Management "O'Reilly Media, Inc."

Applied Engineering Analysis Tai-Ran Hsu, San Jose State University, USA A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbook which demonstrates how to apply mathematics to solve engineering problems. It begins with an overview of engineering analysis and an introduction to mathematical modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order differential equations. Fourier series and Laplace transform are also covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to design and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features: Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering problems. Examples and problems of a practical nature with illustrations to enhance student's self-learning. Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control (SPC). Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making.

Agriscience Moody Pub

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 should guide the periodic review and updating of the curriculum.

Mathematics for Machine Learning Addison Wesley Publishing Company

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

University Research for Innovation John Wiley & Sons

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and

researchers.

Introduction to Machine Learning Pearson Education India

Chemistry in the laundry (soaps, detergents, etc.) - Kitchen (butter, fats, oils, waxes) - Bedroom (cosmetics) - Garden (pesticides, etc.); Chemistry of plastics, glass, metals, fibres and fabrics, enamel, cement. ; Chemistry in the medicine cabinet (drugs, aspirin, etc.) - Dining room (food, alcohol, caffeine etc,) - Chemistry of energy (solar, nuclear, ozone) - Heavy metals and radiation. _____

The British Journal of Photography John Wiley & Sons

Volume is indexed by Thomson Reuters BCI (WoS). A forum of researchers, educators and engineers involved in various aspects of Machine Design provided the inspiration for this collection of peer-reviewed papers. The resultant dissemination of the latest research results, and the exchange of views concerning the future research directions to be taken in this field will make the work of immense value to all those having an interest in the topics covered. The book reflects the cooperative efforts made in seeking out the best strategies for effecting improvements in the quality and the reliability of machines and machine parts and for extending their fields of application.

Mausam Cengage Learning

Textbooks are symbols of centuries-old education. They're often outdated as soon as they hit students' desks. Acting "by the textbook" implies compliance and a lack of creativity. It's time to ditch those textbooks--and those textbook assumptions about learning. In Ditch That Textbook, teacher and blogger Matt Miller encourages educators to throw out meaningless, pedestrian teaching and learning practices. He empowers them to evolve and improve on old, standard, teaching methods. Ditch That Textbook is a support system, toolbox, and manifesto to help educators free their teaching and revolutionize their classrooms.

Lie Groups, Differential Equations, and Geometry Morgan & Claypool Publishers

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

A TEXTBOOK OF ENGINEERING CHEMISTRY Delmar Pub

Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well as behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters. Contributing Authors David S. Bright, Wright State University Anastasia H. Cortes, Virginia

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Ditch That Textbook Elsevier

This authoritative book, highly regarded for its intellectual quality and contributions provides a solid foundation and life-long reference for anyone studying the most important methods of modern signal and system analysis. The major changes of the revision are reorganization of chapter material and the addition of a much wider range of difficulties.