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Layout and Design of Shallow-draft Waterways Springer Science & Business Media
This comprehensive and self-contained, one-stop source discusses phase-field methodology in a fundamental way, explaining advanced numerical techniques for solving phase-field and related continuum-field models. It also presents numerical techniques used to simulate various phenomena in a detailed, step-by-step way, such that readers can carry out their own code developments. Features many examples of how the methods explained can be used in materials science and engineering applications.
Handbook of Thermal Process Modeling Steels Springer Science & Business Media
This is the second printing of the book first published in 1988. The first four chapters of the volume are based on lectures given by Stroock at MIT in 1987. They form an introduction to the basic ideas of the theory of large deviations and make a suitable package on which to base a semester-length course for advanced graduate students with a strong background in analysis and some probability theory. A large selection of exercises presents important material and many applications. The last two chapters present various non-uniform results (Chapter 5) and outline the analytic approach that allows one to test and compare techniques used in previous chapters (Chapter 6).
Fundamentals of Electric Circuits Scholargy Publishing, Inc.
Measurements of variable chlorophyll fluorescence have revolutionised global research of photosynthetic bacteria, algae and plants and in turn assessment of the status of aquatic ecosystems, a success that has partly been facilitated by the widespread commercialisation of a suite of chlorophyll fluorometers designed for almost every application in lakes, rivers and oceans. Numerous publications have been produced as researchers and assessors have simultaneously sought to optimise protocols and practices for key organisms or water bodies; however, such parallel efforts have led to difficulties in reconciling processes and patterns across the aquatic sciences. This book follows on from the first international conference on “ chlorophyll fluorescence in the aquatic sciences ” (AQUAFLUO 2007): to bridge the gaps between the concept, measurement and application of chlorophyll fluorescence through the synthesis and integration of current knowledge from leading researchers and assessors as well as instrument manufacturers.
Large Deviations Springer
Catalyst lifetime represents one of the most crucial economic aspects in industrial catalytic processes, due to costly shutdowns, catalyst replacements, and proper disposal of spent materials. Not surprisingly, there is considerable motivation to understand and treat catalyst deactivation, poisoning, and regeneration, which causes this research topic to continue to grow. The complexity of catalyst poisoning obviously increases along with the increasing use of biomass/waste-derived/residual feedstocks and with requirements for cleaner and novel sustainable processes. This book collects 15 research papers providing insights into several scientific and technical aspects of catalyst poisoning and deactivation, proposing more tolerant catalyst formulations, and exploring possible regeneration strategies.
Design of Experiments for Engineers and Scientists Springer Science & Business Media
This new olive oil handbook provides a wealth of detail about the analysis and properties of olives and their oil. It covers technological aspects and biochemistry, a description of detailed techniques, and an analysis of olive oil from the standpoint of general methodology.
The United Nations and the Indonesian Takeover of West Papua, 1962-1969 McGraw-Hill Education
An Emerging Tool for Pioneering Engineers Co-published by the International Federation of Heat Treatment and Surface Engineering.Thermal processing is a highly precise science that does not easily lend itself to improvements through modeling, as the computations required to attain an accurate prediction of the microstructure and properties of work
Business Statistics for Competitive Advantage with Excel 2007 World Scientific
Exceptional managers know that they can create competitive advantages by basing decisions on performance response under alternative scenarios. To create these advantages, managers need to understand how to use statistics to provide information on performance response under alternative scenarios. Statistics are created to make better decisions. Statistics are essential and relevant. Statistics must be easily and quickly produced using widely available software, Excel. Then results must be translated into general business language and illustrated with compelling graphics to make them understandable and usable by decision makers. This book helps students master this process of using statistics to create competitive advantages as decision makers. Statistics are essential, relevant, easy to produce, easy to understand, valuable, and fun, when used to create competitive advantage. The Examples, Assignments, And Cases Used To Illustrate Statistics For Decision Making Come From Business Problems McIntire Corporate Sponsors and Partners, such as Rolls-Royce, Procter & Gamble, and Dell, and the industries that they do business in, provide many realistic examples. The book also features a number of examples of global business problems, including those from important emerging markets in China and India. It is exciting to see how statistics are used to improve decision making in real and important business decisions. This makes it easy to see how statistics can be used to create competitive advantages in similar applications in internships and careers. Learning Is Hands On With Excel and Shortcuts
Bulletproof Web Design Wiley
This comprehensive, detailed reference provides readers with both a working knowledge of Mathematica in general and a detailed knowledge of the key aspects needed to create the fastest, shortest, and most elegant implementations possible. It gives users a deeper understanding of Mathematica by instructive implementations, explanations, and examples from a range of disciplines at varying levels of complexity. The three volumes -- Programming, Graphics, and Mathematics, total 3,000 pages and contain more than 15,000 Mathematica inputs, over 1,500 graphics, 4,000+ references, and more than 500 exercises. This first volume begins with the structure of Mathematica expressions, the syntax of Mathematica, its programming, graphic, numeric and symbolic capabilities. It then covers the hierarchical construction of objects out of symbolic expressions, the definition of functions, the recognition of patterns and their efficient application, program flows and program structuring, and the manipulation of lists. An indispensible resource for students, researchers and professionals in mathematics, the sciences, and engineering.
Numerical Ocean Circulation Modeling Wiley-Interscience
A guided tour through the each stages of process,
Kansei/Affective Engineering explores how to apply Kansei/Affective Engineering. It describes the psychological survey and psycho-physiological measurement of consumer feelings and the multivariate statistical analysis of this survey data, including rough set models. Since soft computing technology
Chlorophyll a Fluorescence in Aquatic Sciences: Methods and Applications SIAM
The fastest, easiest, most comprehensive way to learn Adobe Animate Classroom in a Book ® , the best-selling series of hands-on software training workbooks, offers what no other book or training program does -- an official training series from Adobe, developed with the support of Adobe product experts. Adobe Animate Classroom in a Book (2021 release) contains lessons that cover the basics and beyond, providing countless tips and techniques to help you become more productive with the program. You can follow the book from start to finish or choose only those lessons that interest you. Purchase of this book includes valuable online features. Follow the instructions in the book's “ Getting Started ” section to unlock access to: Downloadable lesson files you need to work through the projects in the book Web Edition containing the complete text of the book, interactive quizzes, and videos that walk you through the lessons step by step What you need to use this book: Adobe Animate (2021 release) software, for either Windows or macOS. (Software not included.) Note: Classroom in a Book does not replace the documentation, support, updates, or any other benefits of being a registered owner of Adobe Animate software.
Software Engineering Methods in Intelligent Algorithms MDPI
This essential new volume provides background information, historical perspective, and expert commentary on the ASME B31.1 Code requirements for power piping design and construction. It provides the most complete coverage of the Code that is available today and is packed with additional information useful to those responsible for the design and mechanical integrity of power piping. The author, Dr. Becht, is a long-serving member of ASME piping code committees and is the author of the highly successful book, Process Piping: The Complete Guide to ASME B31.3, also published by ASME Press and now in its third edition. Dr. Becht explains the principal intentions of the Code, covering the content of each of the Code's chapters. Book inserts cover special topics such as spring design, design for vibration, welding processes and bonding processes. Appendices in the book include useful information for pressure design and flexibility analysis as well as guidelines for computer flexibility analysis and design of piping systems with expansion joints. From the new designer wanting to know how to size a pipe wall thickness or design a spring to the expert piping engineer wanting to understand some nuance or intent of the Code, everyone whose career involves process piping will find this to be a valuable reference.
Physics Division Annual Report Adobe Press
As Directors of this NATO Workshop, we welcome this opportunity to record formally our thanks to the NATO Scientific Affairs Division for making our meeting possible through generous financial support and encouragement. This meeting has two purposes: the first obvious one because we have collected scientists from East, far East and west to discuss new development in the field of fracture mechanics: the notch fracture mechanics. The second is less obvious but perhaps in longer term more important that is the building of bridges between scientists in the frame of a network called Without Walls Institute on Notch Effects in Fatigue and Fracture". Physical perception of notch effects is not so easy to understand as the presence of a geometrical discontinuity as a worst effect than the simple reduction of cross section. Notch effects in fatigue and fracture is characterised by the following fundamental fact: it is not the maximum local stress or stress which governs the phenomena of fatigue and fracture. The physic shows that a process volume is needed probably to store the necessary energy for starting and propagating the phenomenon. This is a rupture of the traditional "strength of material" school which always give the prior importance of the local maximum stress. This concept of process volume was strongly affirmed during this workshop.
The Theory of Composites John Wiley & Sons
Covering both theory and progressive experiments, Quantum Computing: From Linear Algebra to Physical Realizations explains how and why superposition and entanglement provide the enormous computational power in quantum computing. This self-contained, classroom-tested book is divided into two sections, with the first devoted to the theoretical aspect
Kansei/Affective Engineering Springer
The purpose of this manual is to provide guidance for planning, layout and design of shallow-draft waterways.
Fundamentals of Electric Circuits CRC Press
This Safety Report provides guidance on the establishment and operation of calibration facilities for radiation monitoring instruments. It reflects the current internationally accepted principles and recommended practices in calibration procedures, taking account of the major changes and developments that have occurred over the past decade.
Catalysts Deactivation, Poisoning and Regeneration Springer
This collection presents papers on the science, engineering, and technology of shape castings, with contributions from researchers worldwide. Among the topics that are addressed are structure-property-performance relationships, modeling of casting processes, and the effect of casting defects on the mechanical properties of cast alloys.
Power Piping American Society of Mechanical Engineers
Immunoregulation is one of the areas which has witnessed the most explosive advances of immunology during the past decade. It is in this area that the current view of the immune system has arisen and developed. There is indeed little doubt that immune reactions are primarily determined by messages which are genera ted within the immune system and passed among different types of immunologie cells. This cell communication not only determines the type, intensity and duration of the response after perturbation of the immune system by exogenous antigens, but it is also essential for preventing autoimmune reactions and their clinical conse quences. In order to assure aperfect balance within the enormous com plexity of the immune system, it is not surprising that multiple self-regulatory mechanisms are organized at different levels, such as antibody feedback, idiotypic-anti-idiotypic responses, suppres sor and helper T cells, lymphokine signals and genetic require ments. A nu mb er of observations in recent years have, however, demonstrated that consistent contributions to the immunological homeostasis are given also by signals generated outside of the

immune system, namely,in the central and autonomous nervous system as weIl as in the endocrine apparatus. Furthermore, the interactions between the immune system and the other body homestatic mechanisms seem to be bidirectional: if immunological cells may be targets of neuroendocrinological factors, immunological products seem in turn to contribute to the neuro endocrine homeostasis.

Exam 77-420 Microsoft Excel 2013 John Wiley & Sons

This updated version of the first edition examines the strength and deformation behaviour of riveted and bolted structural connectors and the joints in which they are used.

Notch Effects in Fatigue and Fracture John Wiley & Sons

"Alexander and Sadiku's sixth edition of Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems throughout the text."--Publisher's website.

Quantum Computing Springer

Composites have been studied for more than 150 years, and interest in their properties has been growing. This classic volume provides the foundations for understanding a broad range of composite properties, including electrical, magnetic, electromagnetic, elastic and viscoelastic, piezoelectric, thermal, fluid flow through porous materials, thermoelectric, pyroelectric, magnetoelectric, and conduction in the presence of a magnetic field (Hall effect). Exact solutions of the PDEs in model geometries provide one avenue of understanding composites; other avenues include microstructure-independent exact relations satisfied by effective moduli, for which the general theory is reviewed; approximation formulae for effective moduli; and series expansions for the fields and effective moduli that are the basis of numerical methods for computing these fields and moduli. The range of properties that composites can exhibit can be explored either through the model geometries or through microstructure-independent bounds on the properties. These bounds are obtained through variational principles, analytic methods, and Hilbert space approaches. Most interesting is when the properties of the composite are unlike those of the constituent materials, and there has been an explosion of interest in such composites, now known as metamaterials. The Theory of Composites surveys these aspects, among others, and complements the new body of literature that has emerged since the book was written. It remains relevant today by providing historical background, a compendium of numerous results, and through elucidating many of the tools still used today in the analysis of composite properties. This book is intended for applied mathematicians, physicists, and electrical and mechanical engineers. It will also be of interest to graduate students.