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Government reports annual index John Wiley & Sons
Starting out with an introduction to the fundamentals of lithium ion batteries, this book begins by describing in detail the new materials for all four major uses as cathodes, anodes, separators, and electrolytes. It then goes on to address such critical issues as self-discharge and passivation effects, highlighting lithium ion diffusion and its profound effect on a battery's power density, life cycle and safety issues. The monograph concludes with a detailed chapter on lithium ion battery use in hybrid electric vehicles. Invaluable reading for materials scientists, electrochemists, physicists, and those working in the automobile and electrotechnical industries, as well as those working in computer hardware and the semiconductor industry.
NBS Laboratory Equipment CRC Press
The first text on molecular diagnostics specifically designed for clinical laboratory science programs is back! This exceptional resource introduces the fundamentals of nucleic acid, as well as more advanced concepts. With a focus on the application of molecular concepts in the clinical laboratory to diagnosis diseases, the 2nd Edition includes important updates and improvements to keep up with the rapidly developing field. Inside youll find in-depth explanations of the principles of molecular-based assays as well as reference material, trouble-shooting tips for the laboratory, and discussions that emphasize the continuing emergence of new diagnostic technologies.
The Middle East World Scientific
In the field known as "the mathematical theory of shock waves," very exciting and unexpected developments have occurred in the last few years. Joel Smoller and Blake Temple have established classes of shock wave solutions to the Einstein Euler equations of general relativity; indeed, the mathematical and physical con sequences of these examples constitute a whole new area of research. The stability theory of "viscous" shock waves has received a new, geometric perspective due to the work of Kevin Zumbrun and collaborators, which offers a spectral approach to systems. Due to the intersection of point and essential spectrum, such an ap proach had for a long time seemed out of reach. The stability problem for "in viscid" shock waves has been given a novel, clear and concise treatment by Guy Metivier and coworkers through the use of paradifferential calculus. The L 1 semi group theory for systems of conservation laws, itself still a recent development, has been considerably condensed by the introduction of new distance functionals through Tai-Ping Liu and collaborators; these functionals compare solutions to different data by direct reference to their wave structure. The fundamental prop erties of systems with relaxation have found a systematic description through the papers of Wen-An Yong; for shock waves, this means a first general theorem on the existence of corresponding profiles. The five articles of this book reflect the above developments.
Perfect Knowledge of Springer Science & Business Media
From the Muslims' to the Crusaders' conquest Jerusalem is among the world's best known cities. Its most outstanding and constant feature is its shared holiness by three major confessions (Muslim, Jewish and Christian). Covering the Marwanid, the Abbasid, and the Faimid phase, this study describes not only the emergence of conceptions with which the three major confessions share this city, but also their interactions as well as the political circumstances and religious axioms which give each conception its specific shape. Looking for these conceptions of the holy area of the city the Haram has been chosen. This area of the former temple was highly significant to all three confessions. The analysis is based on a careful description of the Haram (focusing on topics like names and traditions, architecture, rituals and customs, visions and dreams), and on the establishment of as many parallels as possible. "The result is a volume of astonishing depth and comprehensiveness [] As a compendium of sources it is unrivalled." Journal of Palestine Studies "The excellent graphics added to each section, culminating in 103 figures, deserve special mention. Also impressive is Kaplony's generous handling of space; it seems that he was aiming for the display of all the texts available to him. [] taking into account Kaplony's treatment of the subject, one is tempted to compare it with that of the precision and care of

Swiss watchmakers. Unless new sources come to light, which is not very likely, this book will be the standard work for many years to come." Jerusalem Studies in Arabic and Islam "This book is an excellent contribution to the growing literature on Islamic Jerusalem, and it will indubitably be of interest to scholars and students of medieval Islamic history." International Journal of Middle East Studies.

Tools for Homesteaders, Gardeners, and Small-scale Farmers Tata McGraw-Hill Education

Still the only book offering comprehensive coverage of the analysis and design of both API equipment and ASME pressure vessels This edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest ASME Codes and API standards. In addition to covering the code requirements governing the design of process equipment, the book supplies structural, mechanical, and chemical engineers with expert guidance to the analysis and design of storage tanks, pressure vessels, boilers, heat exchangers, and related process equipment and its associated external and internal components. The use of process equipment, such as storage tanks, pressure vessels, and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries. The extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to an exacting standard. Accordingly, codes and standards such as the ASME and API were written to assure safety. Still the only guide covering the design of both API equipment and ASME pressure vessels, Structural Analysis and Design of Process Equipment, 3rd Edition: Covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers Now includes numerical vibration analysis needed for earthquake evaluation Relates the requirements of the ASME codes to international standards Describes, in detail, the background and assumptions made in deriving many design equations underpinning the ASME and API standards Includes methods for designing components that are not covered in either the API or ASME, including ring girders, leg supports, and internal components Contains procedures for calculating thermal stresses and discontinuity analysis of various components Structural Analysis and Design of Process Equipment, 3rd Edition is an indispensable tool-of-the-trade for mechanical engineers and chemical engineers working in the petroleum and chemical industries, manufacturing, as well as plant engineers in need of a reference for process equipment in power plants, petrochemical facilities, and nuclear facilities.

Calculation of the Properties of Vacancies and Interstitials Springer

Graduate-level text covers properties of the Fermi-Dirac and Bose-Einstein distributions; the interrelated subjects of fluctuations, thermal noise, and Brownian movement; and the thermodynamics of irreversible processes. 1958 edition.

A New Critical Japanese-English Dictionary Springer Science & Business Media

This new edition of the Handbook of Surface and Colloid Chemistry informs you of significant recent developments in the field. It highlights new applications and provides revised insight on surface and colloid chemistry's growing role in industrial innovations. The contributors to each chapter are internationally recognized experts. Several chapter

Solar System Ices Nova Snova

Rare metals play an important role in the development of major branches of industry, such as vacuum equipment, semiconductor electronics, nuclear power and rocket production, as well as in the production of special steels and hard, refractory and corrosion-resistant alloys. Rapid development and improvement in the production of rare metals took place in the ten years which have elapsed since the publication of the first edition of this book. These ten years have witnessed the beginning of large-scale production of titanium, zirconium, and germanium, and a significant increase in the production volume; new, improved methods for the separation and purification of metals and compounds (ion-exchange, extraction, crystallization methods) as well as arc and electron-beam melting processes for metals were developed. This made it necessary to rewrite most of this book. In view of the growing importance of the lanthanides and rhenium, chapters on these metals were also included. At the same time, we decided to dispense with the chapters on lead and antimony, since these are not usually listed as rare metals. In describing the metallurgy of each metal, much attention was paid to its physicochemical nature and to the practical operations involved in the main technological processes for the production of its chemical compounds and of the pure metal. This book is a textbook for students specializing in the metallurgy of the rare metals. It is assumed that the student is familiar with the physicochemical fundamentals .of metallurgy, ore dressing, metallurgical furnaces, and processes and apparatus used in extractive metallurgy. The description of standard equipment (leaching apparatus, thickeners, filters, comminution installations, etc.) has accordingly been omitted. The references are grouped together at the end of the book.

Nonlinear Functional Analysis and Its Applications John Wiley & Sons

This book is a Practical Guide in Engineering Technique for Mechanical Engineers (Degree/Diploma/AIME) whether a final year student preparing for service interview or working as a junior Engineer in construction field and doing the Piping Engineering job. It is easy to grasp the basic knowledge and the principle of piping Engineering subject through this book. This is devised and planned to be practical help and is made to be most valuable reference book. To make the book really useful at all levels, it has been written in an easy style and in a simple manner, so that a professional can grasp the subject independently by referring this book. Care has been taken to make this book as self-explanatory as possible and within the technical ability of an average professional. The requirements of all engineering professionals and the various difficulties they face while performing their job is fulfilled. The excellence of the book has been appreciated by the readers from all parts of India and abroad after publication the First Edition.

Science Citation Index Franz Steiner Verlag

The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners.

Packed Tower Design and Applications Springer Science & Business Media

Vols. for 1964- have guides and journal lists.

Sol-Gel Optics Springer Science & Business Media

Primitive Meteorites and Asteroids: Physical, Chemical, and Spectroscopic Observations Paving the Way to Exploration covers the physical, chemical and spectroscopic aspects of asteroids, providing important data and research on carbonaceous chondrites and primitive meteorites. This information is crucial to the success of missions to parent bodies, thus contributing to an understanding of the early solar system. The book offers an interdisciplinary perspective relevant to many fields of planetary science, as well as cosmochemistry, planetary astronomy, astrobiology, geology and space engineering. Including contributions from planetary and missions scientists worldwide, the book collects the fundamental knowledge and cutting-edge research on carbonaceous chondrites and their parent bodies into one accessible resource, thus contributing to the future of space exploration. Presents the most current data and information on the mission-relevant characteristics of primitive asteroids Addresses the physical, chemical and spectral characteristics of carbonaceous chondritic meteorites and the bearings on successful exploration of their parent asteroids Includes chapters on geotechnical properties and resource extraction

Advances in the Theory of Shock Waves F. A. Davis Company

This is the fifth edition of the highly successful work first published in 1968, comprising two definitive volumes on particle characterisation. The first volume is devoted to sampling and particle size

measurement, while surface area and pore size determination are reviewed in volume 2. Particle size and characterisation are central to understanding powder properties and behaviour. This book describes numerous potential measuring devices, how they operate and their advantages and disadvantages. It comprise a fully comprehensive treatise on the wide range of available equipment with an extensive literature survey, and a list of manufacturers and suppliers. The author's blend of academic and industrial experience results in a readable technical book with information on how to analyse, present, and extract useful information from data. This is an essential reference book for both industrial and academic research workers in a variety of areas including: pharmaceuticals, food science, pollution analysis and control, electronic materials, agricultural products, polymers, pigments and chemicals.

The ?aram of Jerusalem, 324-1099 John Wiley & Sons

The CRC Principles and Applications in Engineering series is a library of convenient, economical references sharply focused on particular engineering topics and subspecialties. Each volume in the series comprises chapters carefully selected from CRC's bestselling handbooks, logically organized for optimum convenience, and thoughtfully priced to fit

Current Topics In Theoretical Physics - Proceedings Of The First Pacific Winter School For Theoretical Physics CRC Press

Cryogenics, a term commonly used to refer to very low temperatures, had its beginning in the latter half of the last century when man learned, for the first time, how to cool objects to a temperature lower than had ever existed na tu rally on the face of the earth. The air we breathe was first liquefied in 1883 by a Polish scientist named Olszewski. Ten years later he and a British scientist, Sir James Dewar, liquefied hydrogen. Helium, the last of the so-caBed permanent gases, was finally liquefied by the Dutch physicist Kamerlingh Onnes in 1908. Thus, by the beginning of the twentieth century the door had been opened to astrange new world of experimentation in which aB substances, except liquid helium, are solids and where the absolute temperature is only a few microdegrees away. However, the point on the temperature scale at which refrigeration in the ordinary sense of the term ends and cryogenics begins has ne ver been weB defined. Most workers in the field have chosen to restrict cryogenics to a tem perature range below -150°C (123 K). This is a reasonable dividing line since the normal boiling points of the more permanent gases, such as helium, hydrogen, neon, nitrogen, oxygen, and air, lie below this temperature, while the more common refrigerants have boiling points that are above this temperature. Cryogenic engineering is concerned with the design and development of low-temperature systems and components.

Theory of Nuclear Structure UNESCO Publishing

Over a period of several years the field of probabilistic mechanics and com putational mechanics have progressed vigorously, but independently. With the advent of powerful computational hardware and the development of novel mechanical techniques, the field of stochastic mechanics has progressed in such a manner that the inherent uncertainty of quite complicated systems can be addressed. The first International Conference on Computational Stochastic Mechanics was convened in Corfu in September 1991 in an ef fort to provide a forum for the exchanging of ideas on the current status of computational methods as applied to stochastic mechanics and for identi fying needs for further research. The Conference covered both theoretical techniques and practical applications. The Conference also celebrated the 60th anniversary of the birthday of Dr. Masanobu Shinozuka, the Sollenberger Professor of Civil Engineering at Princeton University, whose work has contributed in such a great measure to the development of Computational Stochastic Mechanics. A brief sum mary of his career and achievements are given in the Dedication. This book comprises some of the papers presented at the meeting and cov ers sections on Theoretical Reliability Analysis; Damage Analysis; Applied Reliability Analysis; Theoretical Random Vibrations; Stochastic Finite Ele ment Concept; Fatigue and Fracture; Monte Carlo Simulations; Earthquake Engineering Applications; Materials; Applied Random Vibrations; Applied Stochastic Finite Element Analysis, and Flow Related Applications and Chaotic Dynamics. The Editors hope that the book will be a valuable contribution to the grow ing literature covering the field of Computational Stochastic Mechanics.

Unit Operations of Chemical Engineering American Mathematical Soc.

This book introduces a quantum-mechanical description of the nuclear fission process from an initial compound state to scission. Issues like the relevant degrees of freedom throughout the process, the way of coupling collective and intrinsic degrees during the fission process, and how a nucleus divides into two separate daughters in a quantum-mechanical description where its wave function can be non-local, are currently being investigated through a variety of theoretical, computational, and experimental techniques. The term “microscopic” in this context refers to an approach that starts from protons, neutrons, and an effective (i.e., in-medium) interaction between them. The form of this interaction is inspired by more fundamental theories of nuclear matter, but still contains parameters that have to be adjusted to data. Thus, this microscopic approach is far from complete, but sufficient progress has been made to warrant taking stock of what has been accomplished so far. The aim is to provide, in a pedagogical and comprehensive manner, one specific approach to the fission problem, originally developed at the CEA Bruyères-le-Châtel Laboratory in France. Intended as a reference for advanced graduate students and researchers in fission theory as well as for practitioners in the field, it includes illustrative examples throughout the text to make it easier for the reader to understand, implement, and verify the formalism presented.

Cryogenic Process Engineering Springer Science & Business Media

Predicted long ago to be present on the surface of planetary bodies by theoreticians and recently shown by interplanetary spacecraft and ground- based instruments to be ubiquitous in the Solar System, ices in a broad sense have become an extremely important subject in planetary research. Ices found on objects formed in the remote parts of the Solar System contain a message about the composition and mode of formation of our planetary system. There are also objects that contain icy materials that bear signatures of past events on a geological timescale. Their study is one of the best means of inquiring about the origins, accessing the past and anticipating the future of our Solar System. The reviews in this book collect together a series of papers covering the physics and chemistry of ices, as well as the geology of icy surfaces. They present an extensive summary of their chemical and physical properties relevant to planetary astronomy. They also provide an overview of planetary bodies that contain ices and the outstanding problems of the field. Audience: The book is intended to become a reference for researchers and graduate students. It is accessible to senior graduate students with a background in planetary science.

Charged Particle Cross Sections Springer

A Comprehensive and Self-Contained Treatment of the Theory and Practical Applications of Ceramic Materials When failure occurs in ceramic materials, it is often catastrophic, instantaneous, and total. Now in its Second Edition, this important book arms readers with a thorough and accurate understanding of the causes of these failures and how to design ceramics for failure avoidance. It systematically covers: Stress and strain Types of mechanical behavior Strength of defect-free solids Linear elastic fracture mechanics Measurements of elasticity, strength, and fracture toughness Subcritical crack propagation Toughening mechanisms in ceramics Effects of microstructure on toughness and strength Cyclic fatigue of ceramics Thermal

stress and thermal shock in ceramics Fractography Dislocation and plastic deformation in ceramics Creep and superplasticity of ceramics Creep rupture at high temperatures and safe life design Hardness and wear And more While maintaining the first edition's reputation for being an indispensable professional resource, this new edition has been updated with sketches, explanations, figures, tables, summaries, and problem sets to make it more student-friendly as a textbook in undergraduate and graduate courses on the mechanical properties of ceramics.

Computational Stochastic Mechanics Mrs Proceedings

that about 100 journals are required to yield fifty In 1957, the Thermophysical Properties Research percent. But that other fifty percent! It is scattered Center (TPRC) of Purdue University, under the leadership of its founder, Professor Y. S. Touloukian, through more than 3500 journals and other docu began to develop a coordinated experimental, ments, often items not readily identifiable or ob tainable. Over 85,000 references are now in the theoretical, and literature review program covering a set of properties of great importance to science and files. technology. Over the years, this program has grown Thus, the man who wants to use existing data, rather than make new measurements himself, faces steadily, producing bibliographies, data compila a long and costly task if he wants to assure himself tions and recommendations, experimental measure ments, and other output. The series of volumes for that he has found all the relevant results. More often which these remarks constitute a foreword is one of than not, a search for data stops after one or two results are found-or after the searcher decides he these many important products. These volumes are a monumental accomplishment in themselves, re has spent enough time looking. Now with the quiring for their production the combined knowledge appearance of these volumes, the scientist or engineer and skills of dozens of dedicated specialists. The who needs these kinds of data can consider himself very fortunate.