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International Aerospace Abstracts Frontiers Media SA

This book is a must-have reference to dry etching technology for semiconductors, which will enable engineers to develop new etching processes for further miniaturization and integration of semiconductor integrated circuits. The author describes the device manufacturing flow, and explains in which part of the flow dry etching is actually used. The content is designed as a practical guide for engineers working at chip makers, equipment suppliers and materials suppliers, and university students studying plasma, focusing on the topics they need most, such as detailed etching processes for each material (Si, SiO₂, Metal etc) used in semiconductor devices, etching equipment used in manufacturing fabs, explanation of why a particular plasma source and gas chemistry are used for the etching of each material, and how to develop etching processes. The latest, key technologies are also described, such as 3D IC Etching, Dual Damascene Etching, Low-k Etching, Hi-k/Metal Gate Etching, FinFET Etching, Double Patterning etc.

Nucleon-nucleon Scattering Data Summary Tables World Scientific

Excellent current review of our knowledge of matter. In this new edition two new sections have been added: quantum electrodynamics and Boson systems.

Principles of Radiation Interaction in Matter and Detection Springer Science & Business Media

This book, like the first and second editions, addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields, from low to high energy, including space physics and medical environment. It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter, detecting systems, performance of detectors and their optimization. The third edition includes additional material covering, for instance: mechanisms of energy loss like the inverse Compton scattering, corrections due to the Landau-Pomeranchuk-Migdal effect, an extended relativistic treatment of nucleus-nucleus screened Coulomb scattering, and transport of charged particles inside the heliosphere. Furthermore, the displacement damage (NIEL) in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained. This book will be of great use to graduate students and final-year undergraduates as a reference and supplement for courses in particle, astroparticle, space physics and instrumentation. A part of the book is directed toward courses in medical physics. The book can also be used by researchers in experimental particle physics at low, medium, and high energy who are dealing with instrumentation. Errata(s) Errata Contents: Electromagnetic Interaction of Radiation in Matter Nuclear Interactions in Matter Radiation Environments and Damage in Silicon Semiconductors Scintillating Media and Scintillator Detectors Solid State Detectors Displacement Damage and Particle Interactions in Silicon Devices Gas Filled Chambers Principles of Particle Energy Determination Superheated Droplet (Bubble) Detectors and CDM Search Medical Physics Applications Readership: Researchers, academics, graduate students and professionals in accelerator, particle, astroparticle, space, applied and medical physics. Keywords: Interactions Between Radiation/Particles and Matter; High; Intermediate and Low Energy Particle Physics; Medical Physics; Radiation/Particle Detection; Space Physics; Detectors; Semiconductors; Calorimeters; Chambers; Scintillators; Silicon Pixels; Radiation Damage; Single Event Effects; Solar Cells Key Features: Covers state-of-the-art detection techniques and underlying theories Addresses topics of considerable use for professionals in medical physics, nuclear engineering, and environmental studies Contains an updated reference table set of physical properties

[Index to IEEE Publications](#) Elsevier

This open access book contains a structured collection of the complete solutions of all essential axisymmetric contact problems. Based on a systematic distinction regarding the type of contact, the regime of friction and the contact geometry, a multitude of technically relevant contact problems from mechanical engineering, the automotive industry and medical engineering are discussed. In addition to contact problems between isotropic elastic and viscoelastic media, contact problems between transversal-isotropic elastic materials and functionally graded materials are addressed, too. The optimization of the latter is a focus of current research especially in the fields of actuator technology and biomechanics. The book takes into account adhesive effects which allow access to contact-mechanical questions about micro- and nano-electromechanical systems. Solutions of the contact problems include both the relationships between the macroscopic force, displacement and contact length, as well as the stress and displacement fields at the surface and, if appropriate, within the half-space medium. Solutions are always obtained with the simplest available method - usually with the method of dimensionality reduction (MDR) or approaches which use the solution of the non-adhesive normal contact problem to solve the respective contact problem.

Theory and Application Springer

These proceedings contain the invited papers, both theoretical and experimental presented at this symposium, the first of 3 held in Copenhagen to honour Niels Bohr's hundredth birthday.

Revised Student Edition Nuclear Science Abstracts Towards Autonomous Robotic Systems 17th Annual Conference, TAROS 2016, Sheffield, UK, June 26--July 1, 2016, Proceedings

Handbook of Materials Failure Analysis: With Case Studies from the Oil and Gas Industry provides an updated understanding on why materials fail in specific situations, a vital element in developing and engineering new alternatives. This handbook covers analysis of materials failure in the oil and gas industry, where a single failed pipe can result in devastating consequences for people, wildlife, the environment, and the economy of a region. The book combines introductory sections on failure analysis with numerous real world case studies of pipelines and other types of materials failure in the oil and gas industry, including joint failure, leakage in crude oil storage tanks, failure of glass fibre reinforced epoxy pipes, and failure of stainless steel components in offshore platforms, amongst others. Introduces readers to modern analytical techniques in materials failure analysis Combines foundational knowledge with current research on the latest developments and innovations in the field Includes numerous compelling case studies of materials failure in oil and gas pipelines and drilling platforms

Electric Contacts Springer Science & Business Media

In combining and revising the two titles 'Past Glacial Environments' and 'Modern Glacial Environments', Dr Menzies and his contributors provide the most comprehensive and wide-ranging book ever prepared on both topics. This text is produced with the student mind, providing accessibility to a complex subject and introducing topics that provide the fundamental underpinnings of knowledge on glaciers, ice sheets, their sediments and landscapes. Modern and Past Glacial Environments features a large collection of photographs, line diagrams and tables and includes examples of glacial environments and landscapes which are drawn from a world wide perspective. Together with a web-based set of current and comprehensive references and bibliographic sources, it provides an ideal reference text. This survey includes coverage of the glaciology, geomorphology and sedimentology of modern glaciers and ice sheets, and the sediments and forms generated within Pleistocene and pre-Pleistocene glacial environments. Quaternary scientists and students will find this work their first point of reference. Likewise students of Physical Geography, Geology, Earth Science, Engineering Geology, Civil Engineering, and Environmental Sciences should find this a useful guide and reference to Glacial Geomorphology and Geology. Essential new academic version Highest contributors in their fields Well reviewed first editions

Handbook of Materials Failure Analysis with Case Studies from the Oil and Gas Industry Butterworth-Heinemann

This book constitutes the refereed proceedings of the 17th Annual Conference on Towards

Autonomous Robotics, TAROS 2016, held in Sheffield UK, in June/July 2016. The 23 revised full papers presented together with 15 short papers were carefully reviewed and selected from 56 submissions. The overall program covers various aspects of robotics, including navigation, planning, sensing and perception, flying and swarm robots, ethics, humanoid robotics, human-robot interaction, and social robotics.

[INIS Atomindex](#) Elsevier

Issues for 1973- cover the entire IEEE technical literature.

Springer

Fluid flow in transforming porous rocks, fracture networks, and granular media is a very active interdisciplinary research subject in Physics, Earth Sciences, and Engineering. Examples of natural and engineered processes include hydrocarbon recovery, carbon dioxide geo-sequestration, soil drying and wetting, pollution remediation, soil liquefaction, landslides, dynamics of wet or dry granular media, dynamics of faulting or friction, volcanic eruptions, gas venting in sediments, karst development and speleogenesis, ore deposit development, and radioactive waste disposal. Hydrodynamic flow instabilities and pore scale disorder typically result in complex flow patterning. In transforming media, additional mechanisms come into play: compaction, de-compaction, erosion, segregation, and fracturing lead to changes in permeability over time. Dissolution, precipitation, and chemical reactions between solutes and solids may gradually alter the composition and structure of the solid matrix, either creating or destroying permeable paths for fluid flow. A complex, dynamic feedback thus arises where, on the one hand, the fluid flow affects the characteristics of the porous medium, and on the other hand the changing medium influences the fluid flow. This Research Topic Ebook presents current research illustrating the depth and breadth of ongoing work in the field of flow and transformation in porous media through 15 papers by 72 authors from around the world. The body of work highlights the challenges posed by the vast range of length- and time-scales over which subsurface flow processes occur. Importantly, phenomena from each scale contribute to the larger-scale behavior. The flow of oil and gas in reservoirs, and the flow of groundwater on catchment scale is sensitively linked to pore scale processes and material heterogeneity down to the micrometer scale. The geological features of the same reservoirs and catchments evolved over millions of years, sometimes as a consequence of cracking and fracture growth occurring on the time scale of microseconds. The research presented by the authors of this Research Topic represents a step toward bridging the separation of scales as well as the separation of scientific disciplines so that a more unified picture of flow and transformation in porous media can start to emerge.

Science and Applications Springer

Rock Mechanics and Rock Engineering: From the Past to the Future contains the contributions presented at EUROCK2016, the 2016 International Symposium of the International Society for Rock Mechanics (ISRM 2016, Ürgüp, Cappadocia Region, Turkey, 29-31 August 2016). The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices, emphasizing the future direction of rock engineering technologies. The 204 accepted papers and eight keynote papers, are grouped into several main sections: - Fundamental rock mechanics - Rock properties and experimental rock mechanics - Analytical and numerical methods in rock engineering - Stability of slopes in civil and mining engineering - Design methodologies and analysis - Rock dynamics, rock mechanics and rock engineering at historical sites and monuments - Underground excavations in civil and mining engineering - Coupled processes in rock mass for underground storage and waste disposal - Rock mass characterization - Petroleum geomechanics - Carbon dioxide sequestration - Instrumentation-monitoring in rock engineering and back analysis - Risk management, and - the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering: From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2016, organized by the Turkish National Society for Rock Mechanics, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

CRREL Technical Publications Springer Science & Business Media

Since robotic prehension is widely used in all sectors of manufacturing industry, this book fills the need for a comprehensive, up-to-date treatment of the topic. As such, this is the first text to address both developers and users, dealing as it does with the function, design and use of industrial robot grippers. The book includes both traditional methods and many more recent developments such as micro grippers for the optoelectronics industry. Written by authors from academia, industry and consulting, it begins by covering the four basic categories of robotic prehension before expanding into sections dealing with endeffector design and control, robotic manipulation and kinematics. Later chapters go on to describe how these various gripping techniques can be used for a common

industrial aim, with details of related topics such as: kinematics, part separation, sensors, tool exchange and compliance. The whole is rounded off with specific examples and case studies. With more than 570 figures, this practical book is all set to become the standard for advanced students, researchers and manufacturing engineers, as well as designers and project managers seeking practical descriptions of robot endeffectors and their applications.

[Government Reports Annual Index](#) CRC Press LLC

This book is a completely revised and rewritten edition of "Electric Contacts Handbook" published in 1958. A large number of new investigations are considered, and many of the basic theories are revised in detail and even in general. The body of information had to be limited as it was not advisable to increase the volume of the book. In particular, no attempt was made to cover all of the practical applications. They appear as examples following concentrated explanations of basic phenomena. As in several branches of technology, the solutions of problems arising in the field of electric contacts involve insight into various disciplines of physics. It is felt that reviews of some of those topics, especially adapted to electric contact phenomena, are welcome to many readers. For example, chapters have been devoted to the structure of carbon, the band theory of electric conduction in solids, certain problems in statistics, and the theory of the electric arc. As regards arc problems, new ideas have been introduced. In order to make the main text less cumbersome, such reviews are presented as appendices. Throughout this edition, the mksa-unit system is used in accord with the latest recommendation for standardization of units in scientific and technical writings. The chapter "History of Early Investigations on Contacts" forming Part IV in the preceding edition of 1958 has not been repeated in this book.

[Foundations of Hadronic Chemistry](#) CRC Press

Nuclear Science Abstracts Towards Autonomous Robotic Systems 17th Annual Conference, TAROS 2016, Sheffield, UK, June 26-July 1, 2016, Proceedings Springer

[Semiclassical Descriptions of Atomic and Nuclear Collisions](#) Springer Science & Business Media

"Phase Change Materials: Science and Applications" provides a unique introduction of this rapidly developing field. Clearly written and well-structured, this volume describes the material science of these fascinating materials from a theoretical and experimental perspective. Readers will find an in-depth description of their existing and potential applications in optical and solid state storage devices as well as reconfigurable logic applications. Researchers, graduate students and scientists with an interest in this field will find "Phase Change Materials" to be a valuable reference.

NIST Special Publication John Wiley & Sons

The focus behind this book on wafer bonding is the fast paced changes in the research and development in three-dimensional (3D) integration, temporary bonding and micro-electro-mechanical systems (MEMS) with new functional layers. Written by authors and edited by a team from microsystems companies and industry-near research organizations, this handbook and reference presents dependable, first-hand information on bonding technologies. Part I sorts the wafer bonding technologies into four categories: Adhesive and Anodic Bonding; Direct Wafer Bonding; Metal Bonding; and Hybrid Metal/Dielectric Bonding. Part II summarizes the key wafer bonding applications developed recently, that is, 3D integration, MEMS, and temporary bonding, to give readers a taste of the significant applications of wafer bonding technologies. This book is aimed at materials scientists, semiconductor physicists, the semiconductor industry, IT engineers, electrical engineers, and libraries.

NBS Special Publication John Wiley & Sons

A Physicist's Perspective on the Insufficiencies and Generalizations of Quantum Chemistry My Undergraduate and Graduate Studies in Italy on the Insufficiencies of Quantum Mechanics and Chemistry I was first exposed to quantum chemistry during my undergraduate courses in physics at the University of Naples, Italy, in the late 1950s. My teacher was Prof. Bakunin, a well known lady chemist in Europe at that time, who escaped from Russia with her family during the advent of communism. My three exams with her (inorganic chemistry, organic chemistry, and laboratory chemistry) were, by far, the most difficult exams of my life (although I did please Prof. Bakunin during the examinations). Besides chemistry, during my undergraduate studies I plunged into the study of physics, with particular reference to quantum mechanics and its mathematical structure. My mathematics teacher was Prof. Cioppoli, one of the most famous Italian mathematicians of that time, who taught me the necessity of advanced mathematics for quantitative physical studies. By reading the works of the founders of contemporary physics, it was easy for me to see the lack of final character of quantum mechanics already in these undergraduate studies.

Phase Change Materials

[Scientific and Technical Aerospace Reports](#)

[Handbook of Contact Mechanics](#)

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