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Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings 2013-04-02 following the two damaging california earthquakes in 1989 loma prieta and 1994 northridge many concrete wall and masonry wall buildings were repaired using federal disaster assistance funding the repairs were based on inconsistent criteria giving rise to controversy regarding criteria for the repair of cracked concrete and masonry wall buildings to help resolve this controversy the federal emergency management agency fema initiated a project on evaluation and repair of earthquake damaged concrete and masonry wall buildings in 1996 the atc 43 project addresses the investigation and evaluation of earthquake damage and discusses policy issues related to the repair and upgrade of earthquake damaged buildings the project deals with buildings whose primary lateral force resisting systems consist of concrete or masonry bearing walls with flexible or rigid diaphragms or whose vertical load bearing systems consist of concrete or steel frames with concrete or masonry infill panels the intended audience is design engineers building owners building regulatory officials and government agencies the project results are reported in three documents the fema 306 report evaluation of earthquake damaged concrete and masonry wall buildings basic procedures manual provides guidance on evaluating damage and analyzing future performance included in the document are component damage classification guides and test and inspection guides fema 307 evaluation of earthquake damaged concrete and masonry wall buildings technical resources contains supplemental information including results from a theoretical analysis of the effects of prior damage on single degree of freedom mathematical models additional background information on the component guides and an example of the application of the basic procedures fema 308 the repair of earthquake damaged concrete and masonry wall buildings discusses the policy issues pertaining to the repair of earthquake damaged buildings and illustrates how the procedures developed for the project can be used to provide a technically sound basis for policy decisions it also provides guidance for the repair of damaged components

Publications ... 1968 learn to assess electromigration reliability and design more resilient chips in this comprehensive and practical resource beginning with fundamental physics and building to advanced methodologies this book enables the reader to develop highly reliable on chip wiring stacks and power grids through a detailed review on the role of microstructure interfaces and processing on electromigration reliability as well as characterisation testing and analysis the book follows the development of on chip interconnects from microscale to nanoscale practical modeling methodologies for statistical analysis from simple 1d approximation to complex 3d description can be used for step by step development of reliable on chip wiring stacks and industrial grade power ground grids this is an ideal resource for materials scientists and reliability and chip design engineers

Hydraulics, with Working Tables 1911 the seventh international symposium on gaseous dielectrics was held in knoxville tennessee u s a on april 24 28 1994 the symposium continued the interdisciplinary character and comprehensive approach of the preceding six symposia gaseous dielectrics vii is a detailed record of the symposium proceedings it covers recent advances and developments in a wide range of basic applied and industrial areas of gaseous dielectrics it is hoped that gaseous dielectrics vii will aid future research and development in and encourage wider industrial use of gaseous dielectrics the organizing committee of the seventh international symposium on gaseous dielectrics consisted of g addis u s a l g christophorou u s a f y chu canada a h cookson u s a o farish u k i gallimberti italy a garscadden u s a d r james u s a e marode france t nitta japan w pfeiffer germany y qiu china i sauers u s a r j van brunt u s a and w zaengl switzerland the local arrangements committee consisted of members of the health sciences research division and personnel of the conference office of the oak ridge national laboratory and staff of the university of tennessee utk the contributions of each member of these committees the work of the session chairmen the interest of the participants and the advice of innumerable colleagues are gratefully acknowledged i am especially indebted to dr isidor sauers dr david r james mrs

Radio Navigational Aids 2022-05-12 containing the most reliable parameter values for each of these semiconductor materials along with applicable references these data are organized in a structured logical way for each semiconductor material reviews traditional semiconductor materials as well as new advanced semiconductors essential authoritative handbook on the properties of semiconductor materials

Electromigration in Metals 1993 this book is devoted to one of the most active domains of atomic physic atomic physics of heavy positive ions during the last 30 years this terrain has attracted enormous attention from both experimentalists and theoreticians on the one hand this interest is stimulated by rapid progress in the development of laboratory ion sources storage rings ion traps and methods for ion cooling in many laboratories a considerable number of complex and accurate experiments have been initiated challenging new frontiers highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics ion surface interaction physics of hollow atoms x ray lasers x ray spectroscopy spectrometry of ions in storage rings and ion traps biology and medical therapy on the other hand the new technologies have stimulated elaborate theoretical investigations especially in developing qed theory relativistic many body techniques plasma kinetic modeling based on the coulomb interactions of highly charged ions with photons and various atomic particles electrons atoms molecules and ions the idea of assembling this book matured while the editors were writing another book x ray radiation of highly charged ions by h f beyer h j kluge and v p shevelko springer berlin heidelberg 1997 covering a broad range of x ray and other radiative phenomena central to atomic physics with heavy ions

Utsunomiya Daigaku Kyōyōbu kenkyū hōkokū 1967 portfolio of 8 charts accompanies v 83

Radio Navigational Aids 1981 publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics there are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics

Catalogue of Data 1888 electronic engineering and computing technology contains sixty one revised and extended research articles written by prominent researchers participating in the conference topics covered include control engineering network management wireless networks biotechnology signal processing computational intelligence computational statistics internet computing high performance computing and industrial applications electronic engineering and computing technology will offer the state of art of tremendous advances in electronic engineering and computing technology and also serve as an excellent reference work for researchers and graduate students working with on electronic engineering and computing technology

The Journal of the Cincinnati Society of Natural History 1981 artificial intelligence ai has become pervasive in most areas of research and applications while computation can significantly reduce mental efforts for complex problem solving effective computer algorithms allow continuous improvement of ai tools to handle complexity in both time and memory requirements for machine learning in large datasets meanwhile data science is an evolving scientific discipline that strives to overcome the hindrance of traditional skills that are too limited to enable scientific discovery when leveraging research outcomes solutions to many problems in medicine and life science which cannot be answered by these conventional approaches are urgently needed for society this edited book attempts to report recent advances in the complementary domains of ai computation and data science with applications in medicine and life science the benefits to the reader are manifold as researchers from similar or different fields can be aware of advanced developments and novel applications that can be useful for either immediate implementations or future scientific pursuit features considers recent advances in ai computation and data science for solving complex problems in medicine physiology biology chemistry and biochemistry provides recent developments in three evolving

key areas and their complementary combinations ai computation and data science reports on applications in medicine and physiology including cancer neuroscience and digital pathology examines applications in life science including systems biology biochemistry and even food technology this unique book representing research from a team of international contributors has not only real utility in academia for those in the medical and life sciences communities but also a much wider readership from industry science and other areas of technology and education

Electronic Engineering 2013-11-11 specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued

Gaseous Dielectrics VII 2018-02-08 the new edition of the most detailed and comprehensive single volume reference on major semiconductor devices the fourth edition of physics of semiconductor devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices this fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties the second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor mis capacitors part iii examines bipolar transistors mosfets mos field effect transistors and other field effect transistors such as jfets junction field effect transistors and mesfets metal semiconductor field effect transistors part iv focuses on negative resistance and power devices the book concludes with coverage of photonic devices and sensors including light emitting diodes leds solar cells and various photodetectors and semiconductor sensors this classic volume the standard textbook and reference in the field of semiconductor devices provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices offers completely updated and revised information that reflects advances in device concepts performance and application features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for instructor s only explores new work on leading edge technologies such as modfets resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and mos controlled thyristors physics of semiconductor devices fourth edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

□□□□ 1956 the 8 recurring volumes of the essentials in ophthalmology series cover the most recent developments in one of eight subspecialties in ophthalmology with four volumes published per year each subspecialty is newly visited every 24 months with a distinct focus on recent developments by bridging the gap between original research and medical textbooks the transfer of this developing knowledge into daily practice is greatly enhanced

Geophysical Studies of the Waterloo Range, Wisconsin 2001-02-21 in the past several decades the research on spin transport and magnetism has led to remarkable scientific and technological breakthroughs including albert fert and peter grünberg s nobel prize winning discovery of giant magnetoresistance gmr in magnetic metallic multilayers handbook of spin transport and magnetism provides a comprehensive balanced account of the state of the art in the field known as spin electronics or spintronics it reveals how key phenomena first discovered in one class of materials such as spin injection in metals have been revisited decades later in other materials systems including silicon organic semiconductors carbon nanotubes graphene and carefully engineered nanostructures the first section of the book offers a historical and personal perspective of the field written by nobel prize laureate albert fert the second section addresses physical phenomena such as gmr in hybrid structures of ferromagnetic and normal metals the third section discusses recent developments in spin dependent tunneling including magnetic tunnel junctions with ferroelectric barriers in the fourth section the contributors look at how to control spin and magnetism in semiconductors in the fifth section they examine phenomena typically found in nanostructures made from metals superconductors molecular magnets carbon nanotubes quantum dots and graphene the final section covers novel spin based applications including advanced magnetic sensors nonvolatile magnetoresistive random access memory and semiconductor spin lasers the techniques and materials of spintronics have rapidly evolved in recent years leading to vast improvements in hard drive storage and magnetic sensing with extensive cross references between chapters this seminal handbook provides a complete guide to spin transport and magnetism across various classes of materials and structures

Properties of Advanced Semiconductor Materials 1964 this is a textbook for advanced undergraduate and graduate students in the field of mobile robotics emphasising computation and algorithms the authors address a range of strategies for enabling robots to perform tasks that involve motion and behavior the book is divided into three major sections locomotion sensing and reasoning it concentrates on wheeled and legged mobile robots but discusses a variety of other propulsion systems kinematic models are developed for many of the more common locomotive strategies it presents algorithms for both visual and nonvisual sensor technologies including sonar vision and laser scanners in the section on reasoning the authors offer a thorough examination of planning and the issues related to spatial representation they emphasize the problems of navigation pose estimation and autonomous exploration the book is a comprehensive treatment of the field offering a discussion of state of the art methods with illustrations of key technologies

Weather Reporting 1935 a clear and intuitive introduction to the physics of charged macromolecules from fundamentals to the latest research developments

Paper - Geological Survey of Canada 1999-04-15 □□ □□□□□□□□□□□□ □□□□ □□□□□□□□□□□□□□ □□□□□□□□ □□□□□□□□□□

Atomic Physics with Heavy Ions 2012 switching series pass shunt precision

Monthly Notices of the Royal Astronomical Society 1999-05

Physical Review 1917

Firing Tables, 75 Mm Gun, Model 1897, Tr. Form the French Ed. of August 25, 1917 1965

Annals of the International Geophysical Year 2010-04-21

Electronic Engineering and Computing Technology 2021-07-12

Advances in Artificial Intelligence, Computation, and Data Science 2007-10-31

Dielectric and Related Molecular Processes 2021-03-03

Physics of Semiconductor Devices 1963

Ionospheric Research; Contract No.AF19 (604)-4563 2010-02-05

Pediatric Ophthalmology, Neuro-Ophthalmology, Genetics 2011-08-25

Handbook of Spin Transport and Magnetism 1976

Special Function Data Book 2000-02-28

Computational Principles of Mobile Robotics 1994

Technical Progress Report for the Quarter ... 2023-02-28

Guide to Microforms in Print 2022-07-20

Physics of Charged Macromolecules 1976

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The Wealth of India 1983

INIS Atomindex 1958

Voltage Regulator Data Book 1987

Arctic Sea Ice 1963-04

Gallium Arsenide

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