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Nanomagnetic and Spintronic Devices for Energy-Efficient Memory and Computing Jayasimha Atulasimha, Supriyo Bandyopadhyay, 2016-03-07 Nanomagnetic and spintronic computing devices are strong contenders for future replacements of CMOS. This is an important and rapidly evolving area with the semiconductor industry investing significantly in the study of nanomagnetic phenomena and in developing strategies to pinpoint and regulate nanomagnetic reliably with a high degree of energy efficiency. This timely book explores the recent and on going research into nanomagnetic based technology. Key features: Detailed background material and comprehensive descriptions of the current state of the art research on each topic. Focuses on direct applications to devices that have potential to replace CMOS devices for computing applications such as memory logic and higher order information processing. Discusses spin based devices where the spin degree of freedom of charge carriers are exploited for device operation and ultimately information processing. Describes magnet switching methodologies to minimize energy dissipation. Comprehensive bibliographies included for each chapter enabling readers to conduct further research in this field. Written by internationally recognized experts this book provides an overview of a rapidly burgeoning field for electronic device engineers, field based applied physicists, material scientists and nanotechnologists. Furthermore its clear and concise form equips readers with the basic understanding required to comprehend the present stage of development and to be able to contribute to future development. Nanomagnetic and Spintronic Devices for Energy Efficient Memory and Computing is also an indispensable resource for students and researchers interested in computer hardware, device physics and circuits design.

Comprehensive Semiconductor Science and Technology, 2011-01-28 Semiconductors are at the heart of modern living. Almost everything we do be it work, travel, communication or entertainment all depend on some feature of semiconductor technology. Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study, make and exploit semiconductors. Previous attempts at this achievement have been abbreviated and have omitted important topics. Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world. The work is divided into three sections. The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size. Throughout this section there is an emphasis on the full understanding of the underlying physics. The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity, nearly defect free bulk and epitaxial materials. The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us. Provides a comprehensive global picture of the semiconductor world. Each of the work's three sections presents a complete description

of one aspect of the whole Written and Edited by a truly international team of experts *The Financial Crisis* Ted Azarmi, Wolfgang Amann, 2016-07-26 This book brings together a good mix of academics and practitioners for a discussion that focuses on how to change financial practice and the academic field of finance in order to understand the current financial crisis and deal with future turbulent financial times The volume is based on contributions by prominent academics and practitioners from Europe Asia and the USA The book contains several essays most prominently by Maurizio Murgia an internationally renowned European corporate finance scholar and Robert E Krainer a senior professor with banking and business cycles research interest from University of Wisconsin Madison This book also deals with pedagogical empirical and theoretical considerations in light of the crisis **Toxicology of the Human Environment** Chris J Rhodes, 2000-02-24 The environment in which human beings live is complex and we may encounter many different potentially toxic chemical substances during the course of our lives These xenobiotic agents may invade the living system in the form of environmental pollutants in the diet as pharmaceutically administered compounds or even as chemical weapons and it is becoming widely recognised that free radicals are often involved in this toxicity The book covers all aspects of toxic agents in the environment from their detection to their effects Final year undergraduates and postgraduates studying toxicology biochemistry cell biology or environmental science will find this book valuable reading whilst researchers in academia the pharmaceutical industry and public health laboratories will appreciate it as a comprehensive reference CMOS and Beyond Tsu-Jae King Liu, Kelin Kuhn, 2015-02-05 Get up to speed with the future of logic switch design with this indispensable overview of the most promising successors to modern CMOS transistors Learn how to overcome existing design challenges using novel device concepts presented using an in depth accessible tutorial style approach Drawing on the expertise of leading researchers from both industry and academia and including insightful contributions from the developers of many of these alternative logic devices new concepts are introduced and discussed from a range of different viewpoints covering all the necessary theoretical background and developmental context Covering cutting edge developments with the potential to overcome existing limitations on transistor performance such as tunneling field effect transistors TFETs alternative charge based devices spin based devices and more exotic approaches this is essential reading for academic researchers professional engineers and graduate students working with semiconductor devices and technology Photonic Quantum Technologies Mohamed Benyoucef, 2023-05-04 Photonic Quantum Technologies Brings together top level research results to enable the development of practical quantum devices In Photonic Quantum Technologies Science and Applications the editor Mohamed Benyoucef and a team of distinguished scientists from different disciplines deliver an authoritative one stop overview of up to date research on various quantum systems This unique book reviews the state of the art research in photonic quantum technologies and bridges the fundamentals of the field with applications to provide readers from academia and industry in one location resource with cutting edge knowledge they need to have to understand and develop practical quantum systems

for application in e.g. secure quantum communication, quantum metrology and quantum computing. The book also addresses fundamental and engineering challenges en route to workable quantum devices and ways to circumvent or overcome them. Readers will also find a thorough introduction to the fundamentals of quantum technologies including discussions of the second quantum revolution by Nobel Laureate Alain Aspect, solid state quantum optics and non-classical light and quantum entanglement. Comprehensive explorations of emerging quantum technologies and their practical applications including quantum repeaters, satellite-based quantum communication, quantum networks, silicon quantum photonics, integrated quantum systems and future vision. Practical discussions of quantum technologies with artificial atoms, color centers, 2D materials, molecules, atoms, ions and optical clocks. Perfect for molecular and solid state physicists, Photonic Quantum Technologies, Science and Applications will also benefit industrial and academic researchers in photonics and quantum optics, graduate students in the field, engineers, chemists and computer and material scientists.

Advances in Imaging and Electron Physics, 2015-01-31. *Advances in Imaging and Electron Physics* merges two long running serials *Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. The series features extended articles on the physics of electron devices, especially semiconductor devices, particle optics at high and low energies, microlithography, image science and digital image processing, electromagnetic wave propagation, electron microscopy and the computing methods used in all these domains. Contributions from leading authorities. Informs and updates on all the latest developments in the field.

Handbook of Computational Chemistry Jerzy Leszczynski, 2012-01-14. This handbook is a guide to current methods of computational chemistry, explaining their limitations and advantages and providing examples of their applications. The first part outlines methods, the balance of volumes presents numerous important applications.

4th International Conference on Islamic Economics, Business, Philanthropy, and PhD Colloquium (ICIEBP) 2022 Meri Indri Hapsari, M. Bastomi Fahri Zusak, 2023-06-16. This is an open access book. The success of the 1st, 2nd ICIEBP 2017 and 2018 in Universitas Pendidikan Indonesia (UPI) Bandung and Universitas Airlangga (UNAIR) Surabaya, Indonesia, that brought a wide range of participants, did not stop the courage of us to conduct the 3rd ICIEBP virtually on 2020, adapting the pandemic situation in mind, that the conference attendees gained vital insights into Islamic economics from different viewpoints. Moreover, to maintain the continuity of the Islamic Economics conference in presenting insights, sharing and executing ideas presented by innovative researchers, experts and practitioners, organising these innovative discussion forums at the highest level is necessary. Therefore, the Department of Islamic Economics, Faculty of Economic and Business, Universitas Airlangga, in collaboration with the Department of Islamic Economics, Faculty of Economics and Business Education, UPI, proudly presents The 4th International Conference on Islamic Economics, Business and Philanthropy (ICIEBP) that was held on 4-5 October 2022 in Surabaya, Indonesia. The theme as well as the main objective of the conference is Integration of Islamic Economics, Finance and Philanthropy for Sustainable Development of Cities and Communities. This conference program will elaborate on how a

nation can achieve sustainable development and at the same time solve socioeconomic problems such as poverty In addition the Islamic perspective as a new and emergent pattern has demonstrated an unprecedented performance in terms of transforming Muslim societies and beyond

Nanoelectronics for Next-Generation Integrated Circuits Rohit

Dhiman,2022-11-23 The incessant scaling of complementary metal oxide semiconductor CMOS technology has resulted in significant performance improvements in very large scale integration VLSI design techniques and system architectures This trend is expected to continue in the future but this requires breakthroughs in the design of nano CMOS and post CMOS technologies Nanoelectronics refers to the possible future technologies beyond conventional CMOS scaling limits This volume addresses the current state of the art nanoelectronic technologies and presents potential options for next generation integrated circuits Nanoelectronics for Next generation Integrated Circuits is a useful reference guide for researchers engineers and advanced students working on the frontier of the design and modeling of nanoelectronic devices and their integration aspects with future CMOS circuits This comprehensive volume eloquently presents the design methodologies for spintronics memories quantum dot cellular automata and post CMOS FETs including applications in emerging integrated circuit technologies

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