

Nanostructure Science and Technology

Anatoli Korkin
Predrag S. Krstić
Jack C. Wells *Editors*

Nanotechnology for Electronics, Photonics, and Renewable Energy

 Springer

Nanotechnology For Electronics Photonics And Renewable Energy Nanostructure Science And Technology

**Stephen M. Goodnick, Anatoli
Korkin, Robert Nemanich**



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Wells, 2010-12-14 Tutorial lectures given by world renowned researchers have become one of the important traditions of the Nano and Giga Challenges NGC conference series 1 Soon after preparations had begun for the first forum NGC2002 in Moscow Russia the organizers realized that publication of the lectures notes would be a valuable legacy of the meeting and a significant educational resource and knowledge base for students young researchers and senior experts Our first book was published by Elsevier and received the same title as the meeting itself Nano and Giga 2 Challenges in Microelectronics Our second book Nanotechnology for Electronic 3 4 Materials and Devices based on the tutorial lectures at NGC2004 in Krakow 5 Poland the third book from NGC2007 in Phoenix Arizona and the current book 6 from joint NGC2009 and CSTC2009 meeting in Hamilton Ontario have been published in Springer's Nanostructure Science and Technology series Hosted by McMaster University the meeting NGC CSTC 2009 was held as a joint event of two conference series Nano and Giga Challenges Nano Giga Forum and Canadian Semiconductor Technology Conferences CSTC bringing together the networks and expertise of both professional forums Informational electronics and photonics renewable energy solar systems fuel cells and batteries and sensor nano and bio technologies have reached a new stage in their development in terms of engineering limits to cost effective improvement of current technological approaches The latest miniaturization of electronic devices is approaching atomic dimensions

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Krstić, Jack C. Wells, 2011-07-21 Tutorial lectures given by world renowned researchers have become one of the important traditions of the Nano and Giga Challenges NGC conference series 1 Soon after preparations had begun for the first forum NGC2002 in Moscow Russia the organizers realized that publication of the lectures notes would be a valuable legacy of the meeting and a significant educational resource and knowledge base for students young researchers and senior experts Our first book was published by Elsevier and received the same title as the meeting itself Nano and Giga 2 Challenges in Microelectronics Our second book Nanotechnology for Electronic 3 4 Materials and Devices based on the tutorial lectures at NGC2004 in Krakow 5 Poland the third book from NGC2007 in Phoenix Arizona and the current book 6 from joint NGC2009 and CSTC2009 meeting in Hamilton Ontario have been published in Springer's Nanostructure Science and Technology series Hosted by McMaster University the meeting NGC CSTC 2009 was held as a joint event of two conference series Nano and Giga Challenges Nano Giga Forum and Canadian Semiconductor Technology Conferences CSTC bringing together the networks and expertise of both professional forums Informational electronics and photonics renewable energy solar systems fuel cells and batteries and sensor nano and bio technologies have reached a new stage in their development in terms of engineering limits to cost effective improvement of current technological approaches The latest miniaturization of electronic devices is approaching atomic dimensions

Nanoscale Materials and Devices for Electronics, Photonics and Solar Energy

Anatoli Korkin, Stephen Goodnick, Robert Nemanich, 2015-08-26 This book presents research dedicated to solving scientific and technological problems in many areas of electronics photonics and renewable energy Progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs energy and material consumption The latest generation of electronic devices is now approaching nanometer scale dimensions new materials are being introduced into electronics manufacturing at an unprecedented rate and alternative technologies to mainstream CMOS are evolving The low cost of natural energy sources have created economic barriers to the development of alternative and more efficient solar energy systems fuel cells and batteries Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies Nanoscale Materials and Devices for Electronics Photonics and Solar Energy features chapters that cover the following areas atomic scale materials design bio and molecular electronics high frequency electronics fabrication of nanodevices magnetic materials and spintronics materials and processes for integrated and subwave optoelectronics nanoCMOS new materials for FETs and other devices nanoelectronics system architecture nano optics and lasers non silicon materials and devices chemical and biosensors quantum effects in devices nano science and technology applications in the development of novel solar energy devices and fuel cells and batteries

Semiconductor Nanotechnology Stephen M. Goodnick, Anatoli Korkin, Robert Nemanich, 2018-07-26 This book presents research dedicated to solving scientific and technological problems in many areas of electronics photonics and renewable energy Energy and information are interconnected and are essential elements for the development of human society Transmission processing and storage of information requires energy consumption while the efficient use and access to new energy sources requires new information ideas and expertise and the design of novel systems such as photovoltaic devices fuel cells and batteries Semiconductor physics creates the knowledge base for the development of information computers cell phones etc and energy photovoltaic technologies The exchange of ideas and expertise between these two technologies is critical and expands beyond semiconductors Continued progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs energy and material consumption The latest generation of electronic devices is now approaching nanometer scale dimensions new materials are being introduced into electronics manufacturing at an unprecedented rate and alternative technologies to mainstream CMOS are evolving Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies Semiconductor Nanotechnology features chapters that cover the following areas atomic scale materials design bio and molecular electronics high frequency electronics fabrication of nanodevices magnetic materials and spintronics materials and processes for integrated and subwave optoelectronics nanoCMOS new materials for FETs and other devices nanoelectronics system architecture nano optics and lasers non silicon materials and devices chemical and biosensors quantum effects in devices nano science and technology applications in the development of novel solar energy devices and fuel cells and batteries

Nanoscale Materials and Devices for Electronics, Photonics and Solar Energy Anatoli Korkin, Stephen Goodnick, Robert Nemanich, 2015 This book presents research dedicated to solving scientific and technological problems in many areas of electronics photonics and renewable energy Progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs energy and material consumption The latest generation of electronic devices is now approaching nanometer scale dimensions new materials are being introduced into electronics manufacturing at an unprecedented rate and alternative technologies to mainstream CMOS are evolving The low cost of natural energy sources have created economic barriers to the development of alternative and more efficient solar energy systems fuel cells and batteries Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies Nanoscale Materials and Devices for Electronics Photonics and Solar Energy features chapters that cover the following areas atomic scale materials design bio and molecular electronics high frequency electronics fabrication of nanodevices magnetic materials and spintronics materials and processes for integrated and subwave optoelectronics nanoCMOS new materials for FETs and other devices nanoelectronics system architecture nano optics and lasers non silicon materials and devices chemical and biosensors quantum effects in devices nano science and technology applications in the development of novel solar energy devices and fuel cells and batteries *Nanoscale Applications for Information and Energy Systems* Anatoli Korkin, David J. Lockwood, 2012-10-28 Nanoscale Applications for Information and Energy Systems presents nanotechnology fundamentals and applications in the key research areas of information technology electronics and photonics and alternative solar energy plasmonics photovoltaics transparent conducting electrodes silicon electroplating and resistive switching The three major technology areas electronics photonics and solar energy are linked on the basis of similar applications of nanostructured materials in research and development By bridging the materials physics and chemistry at the atomic scale with device and system design integration and performance requirements tutorial chapters from worldwide leaders in the field provide a coherent picture of theoretical and experimental research efforts and technology development in these highly interdisciplinary areas *Advanced Nanomaterials for Biological, Nutraceutical, and Medicinal Applications* Sreeraj Gopi, Augustine Amalraj, T. R. Sreeraj, 2024-07-26 This new volume discusses a selection of nanomaterials that can be employed for advanced biological nutraceutical and medicinal applications It discusses diverse nanomaterials and their classifications their advanced therapeutic properties using biosensors in detecting biological threat agents bionanomaterials for human health the medicinal applications of nanomaterials clinical toxicities of nanomaterials and their use in remediation The book also includes a chapter that provides a helpful comparison of market analysis between biological and synthetic nanomaterials The volume concludes with an insightful perspective on possible future applications of nanomaterials as nutraceutical biological and medicinal agents *Industrial Waste Engineering* Lawrence K. Wang, Mu-Hao Sung Wang, Yung-Tse Hung, 2024-01-13 This volume discusses 1 the treatment of hazardous sludge wastewater textile effluent

contaminated groundwater laboratory waste toxic dye heavy metals acid mine drainage and palm oil effluent 2 the technologies of stabilization solidification natural coagulation flocculation river catchment control and mitigation dredging and mining operations and 3 the management of acid mines laboratories nano pollutants and plant effluents Advanced Semiconducting Materials and Devices K.M. Gupta,Nishu Gupta,2015-08-20 This book presents the latest developments in semiconducting materials and devices providing up to date information on the science processes and applications in the field A wide range of topics are covered including optoelectronic devices metal semiconductor junctions heterojunctions MISFETs LEDs semiconductor lasers photodiodes switching diodes tunnel diodes Gunn diodes solar cells varactor diodes IMPATT diodes and advanced semiconductors Detailed attention is paid to advanced and futuristic materials In addition clear explanations are provided of for example electron theories high field effects the Hall effect transit time effects drift and diffusion breakdown mechanisms equilibrium and transient conditions switching and biasing The book is designed to meet the needs of undergraduate engineering students and will also be very useful for postgraduate students it will assist in preparation for examinations at colleges and universities and for other examinations in engineering Practice questions are therefore presented in both essay and multiple choice format and many solved examples and unsolved problems are included

Computational Electromagnetics Raj Mittra,2013-08-20 Emerging Topics in Computational Electromagnetics in Computational Electromagnetics presents advances in Computational Electromagnetics This book is designed to fill the existing gap in current CEM literature that only cover the conventional numerical techniques for solving traditional EM problems The book examines new algorithms and applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment by using the existing techniques The authors discuss solution techniques for problems arising in nanotechnology bioEM metamaterials as well as multiscale problems They present techniques that utilize recent advances in computer technology such as parallel architectures and the increasing need to solve large and complex problems in a time efficient manner by using highly scalable algorithms **Quantum & Nano Technologies for Photovoltaics** Loucas Tsakalakos,2025-05-12 Ongoing concerns regarding greenhouse gas related environmental effects energy security and the rising costs of conventional energy sources has led to sustained interest and growth in solar energy in general and photovoltaics in particular Exploring state of the art developments from a practical point of view Quantum and Nanotechnology for Photovoltaics is the second edition of the book and examines issues in increasing efficiency decreasing costs and how these two goals can be achieved in a single photovoltaic device leveraging emergent quantum and nanoscale phenomena The book provides fundamental background including new chapters on quantum physics hot carrier solar cells luminescent solar concentrators and additional topics and places research approaches within the proper physical context as related to photovoltaics performance enhancement It reviews the applications of devices and their performance requirements followed by coverage of thin films and advanced band structure concepts for obtaining efficiencies above the Shockley

Queisser single band gap efficiency limit of 31% The editor and contributors also discuss the basic optical properties of nanostructured materials as related to photovoltaics applications and describes quantum hot carrier device physics related to performance They then explore recent literature in the application of various classes of nanostructures to photovoltaics The book covers solar cells based on hybrid organic inorganic nanocomposites structures quantum wells nanowires tubes and quantum dots It also discusses the use of nanoparticles quantum dots to enhance the performance of conventional solar cells and quantum enhanced luminescent solar concentrators Each chapter summarizes the historical development for the nanostructure class under consideration applications beyond photovoltaics and the major synthetic methods followed by a critique of leading works that have employed the particular quantum and or nanostructure type The book examines the advantages of each quantum nanostructure approach and the remaining technical challenges with an emphasis on possible future areas of research interest This work is intended for academic and industrial researchers developing new photovoltaic technologies primarily at the graduate level and beyond though senior level undergraduates with appropriate training in physics and materials science will also benefit from this book Many of the chapters also constitute useful background knowledge for managers and decision makers in companies developing advanced photovoltaic energy and materials technologies

Springer Handbook of Semiconductor Devices Massimo Rudan, Rossella Brunetti, Susanna Reggiani, 2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook's chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e.g. bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook

Polymers in Organic Electronics Sulaiman Khalifeh, 2020-04-01 Polymers in Organic Electronics Polymer Selection for Electronic Mechatronic and Optoelectronic Systems provides readers with vital data guidelines and techniques for optimally designing organic electronic systems using novel polymers The book classifies polymer families types complexes composites nanocomposites compounds and small molecules while also providing an introduction to the fundamental principles of polymers and electronics Features information on concepts and optimized types

of electronics and a classification system of electronic polymers including piezoelectric and pyroelectric optoelectronic mechatronic organic electronic complexes and more The book is designed to help readers select the optimized material for structuring their organic electronic system Chapters discuss the most common properties of electronic polymers methods of optimization and polymeric structured printed circuit boards The polymeric structures of optoelectronics and photonics are covered and the book concludes with a chapter emphasizing the importance of polymeric structures for packaging of electronic devices Provides key identifying details on a range of polymers micro polymers nano polymers resins hydrocarbons and oligomers Covers the most common electrical electronic and optical properties of electronic polymers Describes the underlying theories on the mechanics of polymer conductivity Discusses polymeric structured printed circuit boards including their rapid prototyping and optimizing their polymeric structures Shows optimization methods for both polymeric structures of organic active electronic components and organic passive electronic components Optics Education ,2004

International Research Centers Directory ,2009 **American Book Publishing Record** ,2007

Nanotechnology In Electronics, Photonics, Biosensors And Energy Systems Faquir C Jain,C Broadbridge,M Gherasimova,Hong Tang,2023-08-15 This unique compendium consists of peer reviewed articles spanning from novel growth of materials for nanoelectronic and nanophotonic devices electronic nose sensor array bio nano systems artificial intelligence machine learning and emerging technologies to applications in each of these fields Systems implementing additively manufactured RF devices for communication packaging remote sensing compact multi bit FETs and memories are also included Plasmonic nanostructures with electrical connections have potential applications as new electro optic devices Quantum dot based devices are discussed with regard to optical logic gates mid infrared photodetectors gain and index tailored external cavity high power lasers Contributed by eminent researchers this useful reference text broadly illustrates relevant aspects of high performance materials and emerging nanodevices for implementing high speed electronic systems

Modeling, Characterization, and Production of Nanomaterials Vinod Tewary,Yong Zhang,2022-11-09 Nano scale materials have unique electronic optical and chemical properties that make them attractive for a new generation of devices In the second edition of Modeling Characterization and Production of Nanomaterials Electronics Photonics and Energy Applications leading experts review the latest advances in research in the understanding prediction and methods of production of current and emerging nanomaterials for key applications The chapters in the first half of the book cover applications of different modeling techniques such as Green s function based multiscale modeling and density functional theory to simulate nanomaterials and their structures properties and devices The chapters in the second half describe the characterization of nanomaterials using advanced material characterization techniques such as high resolution electron microscopy near field scanning microwave microscopy confocal micro Raman spectroscopy thermal analysis of nanoparticles and applications of nanomaterials in areas such as electronics solar energy catalysis and sensing The second edition includes

emerging relevant nanomaterials applications and updated modeling and characterization techniques and new understanding of nanomaterials Covers the close connection between modeling and experimental methods for studying a wide range of nanomaterials and nanostructures Focuses on practical applications and industry needs through a solid outlining of the theoretical background Includes emerging nanomaterials and their applications in spintronics and sensing

Nanotechnology In Electronics, Photonics, Biosensors And Energy Systems Faquir C. Jain,2023 The British National Bibliography Arthur James Wells,2009

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Introduction

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