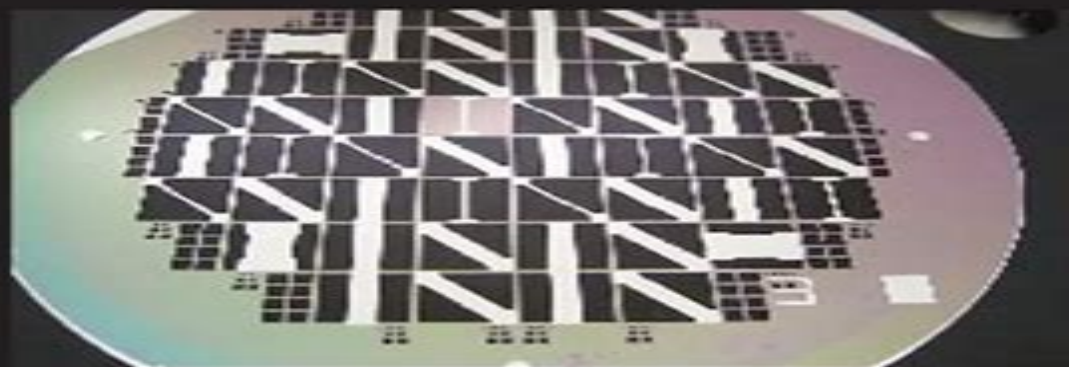




NANOSTRUCTURE SCIENCE AND TECHNOLOGY
Series Editor: David J. Lockwood

Device Applications of Silicon Nanocrystals and Nanostructures



Edited by
Nobuyoshi Koshida

Device Applications Of Silicon Nanocrystals And Nanostructures Nanostructure Science And Technology

Jessica J Manson



Device Applications Of Silicon Nanocrystals And Nanostructures Nanostructure Science And Technology:

Device Applications of Silicon Nanocrystals and Nanostructures Nobuyoshi Koshida, 2008-12-18 Recent developments in the technology of silicon nanocrystals and silicon nanostructures where quantum size effects are important are systematically described including examples of device applications Due to the strong quantum confinement effect the material properties are freed from the usual indirect or direct bandgap regime and the optical electrical thermal and chemical properties of these nanocrystalline and nanostructured semiconductors are drastically changed from those of bulk silicon In addition to efficient visible luminescence various other useful material functions are induced in nanocrystalline silicon and periodic silicon nanostructures Some novel devices and applications in fields such as photonics electroluminescence diode microcavity and waveguide electronics single electron device spin transistor nonvolatile memory and ballistic electron emitter acoustics and biology have been developed by the use of these quantum induced functions in ways different from the conventional scaling principle for ULSI

Device Applications of Silicon Nanocrystals and Nanostructures Nobuyoshi Koshida, 2016-04-01 This comprehensive up to date book systematically covers recent developments in the technology of silicon nanocrystals and silicon nanostructures where quantum size effects are important The chapters include a number of examples of device applications

Device Applications of Silicon Nanocrystals and Nanostructures Nobuyoshi Koshida, 2008-12-11 Recent developments in the technology of silicon nanocrystals and silicon nanostructures where quantum size effects are important are systematically described including examples of device applications Due to the strong quantum confinement effect the material properties are freed from the usual indirect or direct bandgap regime and the optical electrical thermal and chemical properties of these nanocrystalline and nanostructured semiconductors are drastically changed from those of bulk silicon In addition to efficient visible luminescence various other useful material functions are induced in nanocrystalline silicon and periodic silicon nanostructures Some novel devices and applications in fields such as photonics electroluminescence diode microcavity and waveguide electronics single electron device spin transistor nonvolatile memory and ballistic electron emitter acoustics and biology have been developed by the use of these quantum induced functions in ways different from the conventional scaling principle for ULSI

Advanced Silicon Materials for Photovoltaic Applications Sergio Pizzini, 2012-06-07 Today the silicon feedstock for photovoltaic cells comes from processes which were originally developed for the microelectronic industry It covers almost 90% of the photovoltaic market with mass production volume at least one order of magnitude larger than those devoted to microelectronics However it is hard to imagine that this kind of feedstock extremely pure but heavily penalized by its high energy cost could remain the only source of silicon for a photovoltaic market which is in continuous expansion and which has a cumulative growth rate in excess of 30% in the last few years Even though reports suggest that the silicon share will slowly decrease in the next twenty years finding a way to manufacture a specific solar grade feedstock in large quantities at a low cost while maintaining the

quality needed still remains a crucial issue Thin film and quantum confinement based silicon cells might be a complementary solution Advanced Silicon Materials for Photovoltaic Applications has been designed to describe the full potentialities of silicon as a multipurpose material and covers Physical chemical and structural properties of silicon Production routes including the promise of low cost feedstock for PV applications Defect engineering and the role of impurities and defects Characterization techniques and advanced analytical techniques for metallic and non metallic impurities Thin film silicon and thin film solar cells Innovative quantum effects and 3rd generation solar cells With contributions from internationally recognized authorities this book gives a comprehensive analysis of the state of the art of process technologies and material properties essential for anyone interested in the application and development of photovoltaics **Semiconductor**

Nanocrystals Alexander L. Efros,D.J. Lockwood,Leonid Tsybeskov,2013-06-29 A physics book that covers the optical properties of quantum confined semiconductor nanostructures from both the theoretical and experimental points of view together with technological applications Topics to be reviewed include quantum confinement effects in semiconductors optical adsorption and emission properties of group IV III V II VI semiconductors deep etched and self assembled quantum dots nanoclusters and laser applications in optoelectronics **Materials Science Reading Sampler** Wiley,2013-02-15 The 2013 Materials Science eBook Sampler includes select material from seven Materials Science titles Titles are from a number of Wiley imprints including Wiley Wiley VCH Wiley American Ceramic Society Wiley Scrivener and Wiley The Minerals Metals and Materials Society The material that is included for each selection is the book s full Table of Contents as well as a sample chapter If you would like to read more from these books you can purchase the full book or e book at your favorite online retailer *Journal of Nanoscience and Nanotechnology* ,2006 [Silicon Nanomaterials Sourcebook](#) Klaus D.

Sattler,2017-07-28 This comprehensive tutorial guide to silicon nanomaterials spans from fundamental properties growth mechanisms and processing of nanosilicon to electronic device energy conversion and storage biomedical and environmental applications It also presents core knowledge with basic mathematical equations tables and graphs in order to provide the reader with the tools necessary to understand the latest technology developments From low dimensional structures quantum dots and nanowires to hybrid materials arrays networks and biomedical applications this Sourcebook is a complete resource for anyone working with this materials Covers fundamental concepts properties methods and practical applications Focuses on one important type of silicon nanomaterial in every chapter Discusses formation properties and applications for each material Written in a tutorial style with basic equations and fundamentals included in an extended introduction Highlights materials that show exceptional properties as well as strong prospects for future applications Klaus D Sattler is professor physics at the University of Hawaii Honolulu having earned his PhD at the Swiss Federal Institute of Technology ETH in Zurich He was honored with the Walter Schottky Prize from the German Physical Society and is the editor of the sister work also published by Taylor Francis Carbon Nanomaterials Sourcebook as well as the acclaimed multi volume Handbook of

Nanophysics *Handbook of Food Science, Technology, and Engineering* Yiu H. Hui, 2006 *Silicon Nanocrystals* Lorenzo Pavesi, Rasit Turan, 2010-02-02 This unique collection of knowledge represents a comprehensive treatment of the fundamental and practical consequences of size reduction in silicon crystals This clearly structured reference introduces readers to the optical electrical and thermal properties of silicon nanocrystals that arise from their greatly reduced dimensions It covers their synthesis and characterization from both chemical and physical viewpoints including ion implantation colloidal synthesis and vapor deposition methods A major part of the text is devoted to applications in microelectronics as well as photonics and nanobiotechnology making this of great interest to the high tech industry

Semiconductor Nanocrystals and Metal Nanoparticles Tupei Chen, Yang Liu, 2016-10-14 Semiconductor nanocrystals and metal nanoparticles are the building blocks of the next generation of electronic optoelectronic and photonic devices Covering this rapidly developing and interdisciplinary field the book examines in detail the physical properties and device applications of semiconductor nanocrystals and metal nanoparticles It begins with a review of the synthesis and characterization of various semiconductor nanocrystals and metal nanoparticles and goes on to discuss in detail their optical light emission and electrical properties It then illustrates some exciting applications of nanoelectronic devices memristors and single electron devices and optoelectronic devices UV detectors quantum dot lasers and solar cells as well as other applications gas sensors and metallic nanopastes for power electronics packaging Focuses on a new class of materials that exhibit fascinating physical properties and have many exciting device applications Presents an overview of synthesis strategies and characterization techniques for various semiconductor nanocrystal and metal nanoparticles Examines in detail the optical optoelectronic properties light emission properties and electrical properties of semiconductor nanocrystals and metal nanoparticles Reviews applications in nanoelectronic devices optoelectronic devices and photonic devices *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 **Materials Science & Engineering**, 2006 Applied Science & Technology Index, 2000 **Peterson's Graduate Programs in Engineering and Applied Sciences**, 1996 Peterson's Guides, Peterson's Guides Staff, Peterson's, 1995-12-10 Graduate students depend on this series and ask for it by name Why For over 30 years it's been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master's doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more Interest in these fields has never been higher And this is the source to the 3 400 programs currently available from bioengineering and computer science to construction management

Dissertation Abstracts International, 2006 *Silicon-based Nanomaterials* Handong Li, Jiang Wu, Zhiming M. Wang, 2013-10-02 A variety of nanomaterials have excellent optoelectronic and electronic properties for novel device applications At the same time and with advances in silicon integrated circuit IC techniques compatible Si based nanomaterials hold promise of applying the advantages of nanomaterials to the conventional IC industry This book focuses not only on silicon nanomaterials but also summarizes up to date developments in the integration of non silicon nanomaterials on silicon The book showcases the work of leading researchers from around the world who address such key questions as Which silicon nanomaterials can give the desired optical electrical and structural properties and how are they prepared What nanomaterials can be integrated on to a silicon substrate and how is this accomplished What Si based nanomaterials may bring a breakthrough in this field These questions address the practical issues associated with the development of nanomaterial based devices in applications areas such as solar cells luminous devices for optical communication detectors lasers and high mobility transistors Investigation of silicon based nanostructures is of great importance to make full use of nanomaterials for device applications Readers will receive a comprehensive view of Si based nanomaterials which will hopefully stimulate interest in developing novel nanostructures or techniques to satisfy the requirements of high performance device applications The goal is to make nanomaterials the main constituents of the high performance devices of the future **Group IV Semiconductor Nanostructures - 2006: Volume 958** Leonid

Tsybeskov, 2007-03-28 This book focuses on advances in materials science and device applications of nanostructures composed of Si Ge diamond SiGe and SiCGe Continuous progress in the development of reproducibly grown quantum dots wires and wells has produced a new class of functional materials and devices with characteristic dimensions less than 50nm The broad spectrum of these devices ranges from commercially offered high mobility transistors using strained Si to

exploratory SiGe nanostructures for integrated optical interconnects and THz lasers This book brings together researchers from chemistry physics biology materials science and engineering to share and discuss both the challenges and progress towards a new generation of Si SiGe SiCGe based novel functional structures and devices Topics include light emission and photonic devices Ge SiGe and diamond nanostructures strains Si Ge films and layers and Si nanocrystals Advances in Nanostructured Materials Bibhu Prasad Swain,2022-03-30 This book presents recent advances in nanostructured materials It describes the characterization of nanomaterials their preparation methods and performance testing techniques the design and development of nano scale devices and the applications of nanomaterials with examples taken from different industries such as energy bioengineering and medicine The book is broadly divided into sections such as nanostructure semiconductor materials for device applications nanostructured ferroelectric and ferromagnetic materials The topics covered include experimental approaches of device fabrication photovoltaics and supercapacitors applications etc Given the contents the book will be useful for students researchers and professionals working in the area of nanotechnology and nanomaterials

Growth Mechanisms and Novel Properties of Silicon Nanostructures from Quantum-Mechanical Calculations Rui-Qin Zhang,2013-11-22 In this volume Prof Zhang reviews the systematic theoretical studies in his group on the growth mechanisms and properties of silicon quantum dots nanotubes and nanowires including mechanisms of oxide assisted growth of silicon nanowires energetic stability of pristine silicon nanowires and nanotubes thermal stability of hydrogen terminated silicon nanostructures size dependent oxidation of hydrogen terminated silicon nanostructures excited state relaxation of hydrogen terminated silicon nanodots and direct indirect energy band transitions of silicon nanowires and sheets by surface engineering and straining He also discusses the potential applications of these findings This book will mainly benefit those members of the scientific and research community working in nanoscience surface science nanomaterials and related fields

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