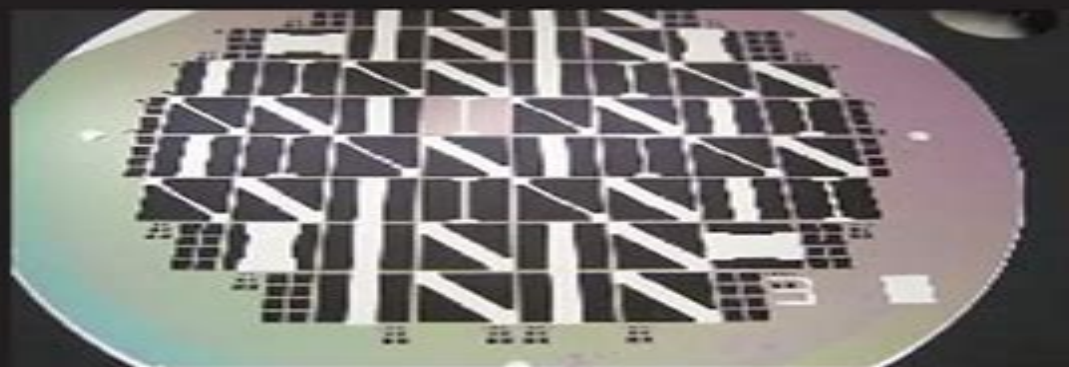




NANOSTRUCTURE SCIENCE AND TECHNOLOGY
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Device Applications of Silicon Nanocrystals and Nanostructures



Edited by
Nobuyoshi Koshida

Device Applications Of Silicon Nanocrystals And Nanostructures Nanostructure Science And Technology

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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

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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 **Materials Science & Engineering**

, 2006 *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

Applied Science & Technology Index ,2000 Intelligent Technologies for Research and Engineering S.

Kannadhasan,R. Nagarajan,Alagar Karthick,K. K. Saravanan,Kaushik Pal,2024-06-07 This volume covers a wide array of topics related to research technology and sustainability for technology researchers and educators Chapter 1 explores the detection of fake news in a distributed environment Material science is covered in Chapter 2 which explains the influence of MOS2 B4C and graphite on the mechanical and dry sliding wear behavior of aluminum 7075 hybrid matrix composites Chapter 3 focuses on sensors and antennas for smart sensor networks Chapters 4 to 8 delve into various aspects of electrical and computer engineering including induction motor condition monitoring automatic conversion of building plans to graphs for robot navigation and analysis of defects in microscopic and electroluminescent images using AI and image processing algorithms Chapters 9 to 16 cover topics such as missing data prediction techniques breast cancer diagnosis on mammography groundwater contamination biofertilizers organic farming and remediation using organisms Sustainable development is a key theme in Chapters 17 to 26 addressing issues like sensor based vehicle fuel theft detection waste management techniques bioremediation of soil contaminated with heavy metals sustainable agriculture practices and novel approaches in bioplastics and nanoremediation Finally Chapters 27 to 29 touch upon renewable energy and Industrial IoT discussing research challenges in renewable energy sources recent trends and the transformation brought about by the Industrial Internet of Things **Silicon Heterostructure Handbook** John D. Cressler,2018-10-03 An extraordinary combination of material science manufacturing processes and innovative thinking spurred the development of SiGe heterojunction devices that offer a wide array of functions unprecedented levels of performance and low manufacturing costs While there are many books on specific aspects of Si heterostructures the Silicon Heterostructure Handbook Materials Fabrication Devices Circuits and Applications of SiGe and Si Strained Layer Epitaxy is the first book to bring all aspects together in a single source Featuring broad comprehensive and in depth discussion this handbook distills the current state of the field in areas ranging from materials to fabrication devices CAD circuits and applications The editor includes snapshots of the industrial state of the art for devices and circuits presenting a novel perspective for comparing the present status with future directions in the field With each chapter contributed by expert authors from leading industrial and research institutions worldwide the book is unequalled not only in breadth of scope but also in depth of coverage timeliness of results and authority of references It also includes a foreword by Dr Bernard S Meyerson a pioneer in SiGe technology Containing nearly 1000 figures along with valuable appendices the Silicon Heterostructure Handbook authoritatively surveys materials fabrication device physics transistor optimization optoelectronics components measurement compact modeling circuit design and device simulation **Dissertation Abstracts International** ,2006 **Peterson's Graduate Programs in Engineering and Applied Sciences, 1996** Peterson's Guides,Peterson's Guides Staff,Peterson's,1995-12-10 Graduate

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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

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