

Nanoscience and Technology

Hilmi Ünlü

Norman J. M. Horing *Editors*

Low Dimensional Semiconductor Structures

Characterization, Modeling
and Applications

 Springer

Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology

Klaus D. Sattler



Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology:

Low Dimensional Semiconductor Structures Hilmi Ünlü, Norman J. M. Horing, 2012-09-14 Starting with the first transistor in 1949 the world has experienced a technological revolution which has permeated most aspects of modern life particularly over the last generation Yet another such revolution looms up before us with the newly developed capability to control matter on the nanometer scale A truly extraordinary research effort by scientists engineers technologists of all disciplines in nations large and small throughout the world is directed and vigorously pressed to develop a full understanding of the properties of matter at the nanoscale and its possible applications to bring to fruition the promise of nanostructures to introduce a new generation of electronic and optical devices The physics of low dimensional semiconductor structures including heterostructures superlattices quantum wells wires and dots is reviewed and their modeling is discussed in detail The truly exceptional material Graphene is reviewed its functionalization and Van der Waals interactions are included here Recent research on optical studies of quantum dots and on the physical properties of one dimensional quantum wires is also reported Chapters on fabrication of nanowire based nanogap devices by the dielectrophoretic assembly approach The broad spectrum of research reported here incorporates chapters on nanoengineering and nanophysics In its presentation of tutorial chapters as well as advanced research on nanostructures this book is ideally suited to meet the needs of newcomers to the field as well as experienced researchers interested in viewing colleagues recent advances

Low Dimensional Semiconductor Structures Hilmi Ünlü, Norman J. M. Horing, 2012-09-12 Starting with the first transistor in 1949 the world has experienced a technological revolution which has permeated most aspects of modern life particularly over the last generation Yet another such revolution looms up before us with the newly developed capability to control matter on the nanometer scale A truly extraordinary research effort by scientists engineers technologists of all disciplines in nations large and small throughout the world is directed and vigorously pressed to develop a full understanding of the properties of matter at the nanoscale and its possible applications to bring to fruition the promise of nanostructures to introduce a new generation of electronic and optical devices The physics of low dimensional semiconductor structures including heterostructures superlattices quantum wells wires and dots is reviewed and their modeling is discussed in detail The truly exceptional material Graphene is reviewed its functionalization and Van der Waals interactions are included here Recent research on optical studies of quantum dots and on the physical properties of one dimensional quantum wires is also reported Chapters on fabrication of nanowire based nanogap devices by the dielectrophoretic assembly approach The broad spectrum of research reported here incorporates chapters on nanoengineering and nanophysics In its presentation of tutorial chapters as well as advanced research on nanostructures this book is ideally suited to meet the needs of newcomers to the field as well as experienced researchers interested in viewing colleagues recent advances

Effect of Static Electric Fields on The

Electronic And Optical Properties of Layered Semiconductor Nanostructures Volodya A. Harutyunyan, 2015-11-04

This volume investigates the theory of the effect of static electric fields on one electron states in nanocylindrical and nanospherical heterolayers and quantized semiconductor films. Homogeneous external electrostatic field for all these structures has been considered as a universal modulating factor. For structures with radial symmetry a study on the influence of radial static field and the electric field of a charged ring on one electron states is presented. Chapters focusing on homogeneous field effect on low dimensional excitonic states in the quantized films and quantum wires in both wide bandgap and narrowband semiconductors are also included. Other contents include calculations weak moderate and strong electric fields quantum mechanical approximation and perturbation theory the quasi classical approximation WKB method. Readers will benefit from the varied methodological to the subject which gives them a concrete analytical framework to solve problems related to nanoscale semiconductor design. The reference should prove to be useful to academics and professionals working in semiconductor nanoelectronics research and development.

Low-Dimensional and Nanostructured Materials and Devices Hilmi Ünlü, Norman J. M. Horing, Jaroslaw Dabrowski, 2015-12-01

This book focuses on the fundamental phenomena at nanoscale. It covers synthesis properties characterization and computer modelling of nanomaterials nanotechnologies bionanotechnology involving nanodevices. Further topics are imaging measuring modeling and manipulating of low dimensional matter at nanoscale. The topics covered in the book are of vital importance in a wide range of modern and emerging technologies employed or to be employed in most industries communication healthcare energy conservation biology medical science food environment and education and consequently have great impact on our society.

Journal of Nanoscience and Nanotechnology, 2005 **21st Century Nanoscience - A Handbook** Klaus D.

Sattler, 2020-11-09. 21st Century Nanoscience A Handbook Low Dimensional Materials and Morphologies Volume 4 will be the most comprehensive up to date large reference work for the field of nanoscience. Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics. This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field. This fourth volume in a ten volume set covers low dimensional materials and morphologies. Key Features: Provides the most comprehensive up to date large reference work for the field. Chapters written by international experts in the field. Emphasises presentation and real results and applications. This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics. The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology. It will be an indispensable resource in academic government and industry libraries worldwide. The fields impacted by nanophysics extend from materials science and engineering to

biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology
 aerospace engineering mechanical engineering food science and beyond **CERN Courier** European Organization for
 Nuclear Research, 2008 This journal is devoted to the latest research on physics publishing articles on everything from
 elementary particle behavior to black holes and the history of the universe **Graduate Programs in the Physical
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 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide
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 United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting
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 agricultural sciences the environment and natural resources *Scientific and Technical Aerospace Reports*, 1995 Lists
 citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have
 recently been entered into the NASA Scientific and Technical Information Database **Recent Advances in Nanoscience
 and Technology** Sunil Kumar Bajpai, Murali Mohan Yallapu, 2009 The present Ebook deals with various strategies that have
 frequently been followed to fabricate nanostructures of required size and shape and with required functionalities to enable
 them to be used in a wide spectrum of industrial biomedical and technol **Energy Harvesting and Storage Devices**
 Laxman Raju Thoutam, J. Ajayan, D. Nirmal, 2023-11-29 The book discusses the materials devices and methodologies that can
 be used for energy harvesting including advanced materials devices and systems It describes synthesis and fabrication
 details of energy storage materials It explains use of high energy density thin films for future power systems flexible and
 biodegradable energy storage devices fuel cells and supercapacitors nanogenerators for self powered systems and innovative
 energy harvesting methodologies Features Covers all relevant topics in energy harvesting research and focuses on the
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 harvesting industry by discussing various harvesting mechanisms based on renewable and sustainable energy sources
 Explains the recent trends in flexible and wearable energy storage devices that are currently being used in IoT based smart
 devices Overviews of the state of the art research performed on design and development of energy harvesting devices
 Highlights the interdisciplinary research efforts needed in energy harvesting and storage devices to transform conceptual
 ideas to working prototypes This book is aimed at graduate students and researchers in emerging materials energy
 engineering including harvesting and storage **Encyclopedia of Interfacial Chemistry**, 2018-03-29 Encyclopedia of
 Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge
 of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and

processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions

International Research Centers Directory, 2009 *Theory of Growth and Characterization of Low-dimensional Semiconductor Structures* Karl Joseph Hugill, 1991 **Physics and Modeling of Tera- and Nano-devices** Maxim Ryzhii, Victor Ryzhii, 2008 *Physics and Modeling of Tera and Nano Devices* is a compilation of papers by well respected researchers working in the field of physics and modeling of novel electronic and optoelectronic devices The topics covered include devices based on carbon nanotubes generation and detection of terahertz radiation in semiconductor structures including terahertz plasma oscillations and instabilities terahertz photomixing in semiconductor heterostructures spin and microwave induced phenomena in low dimensional systems and various computational aspects of device modeling Researchers as well as graduate and postgraduate students working in this field will benefit from reading this book Sample Chapter s Semiconductor Device Scaling Physics Transport and the Role of Nanowires 784 KB Contents Semiconductor Device Scaling Physics Transport and the Role of Nanowires D K Ferry et al Polaronic Effects at the Field Effect Junctions for Unconventional Semiconductors N Kirova Cellular Monte Carlo Simulation of High Field Transport in Semiconductor Devices S M Goodnick Nanoelectronic Device Simulation Based on the Wigner Function Formalism H Kosina Quantum Simulations of Dual Gate MOSFET Devices Building and Deploying Community Nanotechnology Software Tools on nanoHUB org S Ahmed et al Positive Magneto Resistance in a Point Contact Possible Manifestation of Interactions V T Renard et al Impact of Intrinsic Parameter Fluctuations in Nano CMOS Devices on Circuits and Systems S Roy et al HEMT Based Nanometer Devices Toward Terahertz Era E Sano Plasma Waves in Two Dimensional Electron Systems and Their Applications V Ryzhii et al Resonant Terahertz Detection Antenna Utilizing Plasma Oscillations in Lateral Schottky Diode A Satou et al Terahertz Polarization Controller Based on Electronic Dispersion Control of 2D Plasmons T Nishimura Higher Order Plasmon Resonances in GaN Based Field Effect Transistor Arrays V V Popov et al Ultra Highly Sensitive Terahertz Detection Using Carbon Nanotube Quantum Dots Y Kawano et al Generation of Ultrashort Electron Bunches in Nanostructures by Femtosecond Laser Pulses A Gladun et al Characterization of Voltage Controlled Oscillator Using RTD Transmission Line K Narahara et al Infrared Quantum Dot Detectors with Diffusion Limited Capture N Vagidov et al Magnetoresistance in Fe MgO Fe Magnetic Tunnel Junctions N N Beleskii et al Modeling and Implementation of Spin Based Quantum Computation M E Hawley et al Quantum Engineering for Threat Reduction and Homeland Security G P Berman et al Strong Phase Shift Mask

Manufacturing Error Impact on the 65nm Poly Line Printability N Belova Readership Academics graduate and postgraduate students in the field of physics and modeling of novel electronics and optoelectronic devices *Characterization of Semiconductor Heterostructures and Nanostructures* Giovanni Agostini, Carlo Lamberti, 2011-08-11 In the last couple of decades high performance electronic and optoelectronic devices based on semiconductor heterostructures have been required to obtain increasingly strict and well defined performances needing a detailed control at the atomic level of the structural composition of the buried interfaces This goal has been achieved by an improvement of the epitaxial growth techniques and by the parallel use of increasingly sophisticated characterization techniques and of refined theoretical models based on ab initio approaches This book deals with description of both characterization techniques and theoretical models needed to understand and predict the structural and electronic properties of semiconductor heterostructures and nanostructures Comprehensive collection of the most powerful characterization techniques for semiconductor heterostructures and nanostructures Most of the chapters are authored by scientists that are among the top 10 worldwide in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapter deals with a selection of top examples highlighting the power of the specific technique to analyze the properties of semiconductors

Low-dimensional Semiconductor Structures T. V. Torchynska, Georgiy Polupan, Larysa Khomenkova, Gennadiy Burlak, 2013

Advances in Semiconductor Nanostructures Alexander V. Latyshev, Anatoliy V. Dvurechenskii, Alexander L. Aseev, 2016-11-10 Advances in Semiconductor Nanostructures Growth Characterization Properties and Applications focuses on the physical aspects of semiconductor nanostructures including growth and processing of semiconductor nanostructures by molecular beam epitaxy ion beam implantation synthesis pulsed laser action on all types of III V IV and II VI semiconductors nanofabrication by bottom up and top down approaches real time observations using in situ UHV REM and high resolution TEM of atomic structure of quantum well nanowires quantum dots and heterostructures and their electrical optical magnetic and spin phenomena The very comprehensive nature of the book makes it an indispensable source of information for researchers scientists and post graduate students in the field of semiconductor physics condensed matter physics and physics of nanostructures helping them in their daily research Presents a comprehensive reference on the novel physical phenomena and properties of semiconductor nanostructures Covers recent developments in the field from all over the world Provides an International approach as chapters are based on results obtained in collaboration with research groups from Russia Germany France England Japan Holland USA Belgium China Israel Brazil and former Soviet Union countries

Semiconductor Nanodevices David Ritchie, 2021-10-24 Semiconductor Nanodevices Physics Technology and Applications explores recent advances in the field The behaviour of these devices is controlled by regions of nanoscale dimensions which typically determine the local density of electronic states and lead to the observation of a range of quantum effects with significant potential for exploitation The book opens with an introduction

describing the development of this research field over the past few decades which contrasts quantum controlled devices to conventional nanoscale electronic devices where an emphasis has often been placed on minimising quantum effects This introduction is followed by seven chapters describing electrical nanodevices and five chapters describing opto electronic nanodevices individual chapters review important recent advances These chapters include specific fabrication details for the structures and devices described as well as a discussion of the physics made accessible It is an important reference source for physicists materials scientists and engineers who want to learn more about how semiconductor based nanodevices are being developed for both science and potential industrial applications The section on electrical devices includes chapters describing the study of electron correlation effects using transport in quantum point contacts and tunnelling between one dimensional wires the high frequency pumping of single electrons thermal effects in quantum dots the use of silicon quantum dot devices for qubits and quantum computing transport in topological insulator nanoribbons and a comprehensive discussion of noise in electrical nanodevices The optical device section describes the use of self assembled III V semiconductor nanostructures embedded in devices for a range of applications including quantum dots for single and entangled photon sources quantum dots and nanowires in lasers and quantum dots in solar cells Explores the major industrial applications of semiconductor nanodevices Explains fabrication techniques for the production of semiconductor nanodevices Assesses the challenges for the mass production of semiconductor nanodevices *Synthesis and Characterization of Some Low Dimensional Semiconductor Nanomaterials* □□□,2002

This book delves into Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology. Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology
 - Chapter 2: Essential Elements of Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology
 - Chapter 3: Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology in Everyday Life
 - Chapter 4: Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology. This chapter will explore what Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology is, why Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology is vital, and how to effectively learn about Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology.
3. In chapter 2, this book will delve into the foundational concepts of Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology. This chapter will elucidate the essential principles that need to be understood to grasp Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology in its entirety.
4. In chapter 3, the author will examine the practical applications of Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology in daily life. This chapter will showcase real-world examples of how Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology in specific contexts. The fourth chapter will explore how Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology.

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Low Dimensional Semiconductor Structures Characterization Modeling And Applications Nanoscience And Technology Introduction

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