

LECTURE NOTES IN
NANOSCALE SCIENCE AND
TECHNOLOGY 3

Zhiming M. Wang
Editor

One-Dimensional Nanostructures



Springer

One Dimensional Nanostructures Lecture Notes In Nanoscale Science And Technology

Jordi Llop, Vanessa Gomez-Vallejo



One Dimensional Nanostructures Lecture Notes In Nanoscale Science And Technology:

One-Dimensional Nanostructures Zhiming M Wang, 2008-07-20 One dimensional 1D nanostructures including nanowires nanotubes and quantum wires have been regarded as the most promising building blocks for nanoscale electronic and optoelectronic devices Worldwide efforts in both the theory and the experimental investigation of growth characterization and applications of 1D nanostructures have resulted in a mature multidisciplinary field In this book a wealth of state of the art information offers the opportunity to uncover the underlying science from diverse perspectives Leading researchers elucidate the synthesis and properties of 1D nanostructures for various morphologies and compositions semiconductor metal carbon etc as well as their considerable impact on spintronics information storage and the design of field effect transistors

Physikdidaktik Ernst Kircher, Raimund Girwidz, Peter Häußler, 2014-12-04 Physikdidaktik Theorie und Praxis ist ein Sammelband der dynamisch gewachsen ist Der Teil I wurde im Jahre 2000 in erster Linie für Studierende des Lehramts Physik konzipiert Der Teil II zeigt Konkretisierungen und im Unterricht erprobte Beispiele zu neueren didaktischen und methodischen Ansätzen die aus der Pädagogik und der allgemeinen Didaktik für die Physikdidaktik aufbereitet wurden Die Physikdidaktik befasst sich natürlich auch mit der Frage welche Elemente aus der modernen Physik in den Unterricht eingehen können und sollen Vor der Aufbereitung der Inhalte für den Unterricht mit Vereinfachungen und angemessenen didaktischen Reduktionen steht die Sachanalyse und die Zusammenfassung von interessanten Themen aus aktuellen experimentellen und theoretischen Arbeitsgebieten der Physik Teil III In der vorliegenden 3. Ausgabe eines Gesamtbandes Physikdidaktik Theorie und Praxis wurden Astrophysik Elementarteilchenphysik und Biophysik als interessante Beispiele aus der aktuellen physikalischen Forschung ganz neu aufgenommen und durch ausgewiesene Experten dargestellt Teil IV enthält ausgewählte Beispiele aus der physikdidaktischen Forschung Wie in den Teilen II und III sind auch in Teil IV neue Arbeiten aufgenommen die u.a. Einblick in die qualitative und quantitative Unterrichtsforschung der Physikdidaktik gewähren und die u.U. eigene Forschungen anregen und fördern Der Inhalt Physikdidaktik Theorie und Praxis besteht aus den vier Teilen Physikdidaktik Teil I Physikdidaktik in der Praxis Teil II Moderne Teilgebiete des Physikunterrichts Teil III Aktuelle Beiträge zur Physikdidaktik Teil IV Die Zielgruppen Studierende des Lehramts Physik Primarstufe vor allem Sekundarstufe I und II Referendarinnen und Referendare des Lehramts Physik Physiklehrerinnen und Physiklehrer Teilnehmer und Lehrpersonen der 3. Ausbildungsphase Lehrerfort- und Weiterbildung Hochschullehrerinnen und Hochschullehrer als Anregung für Forschung und Lehre in der Physikdidaktik Die Herausgeber und Autoren Die fünfunddreißig Autorinnen und Autoren sind vorwiegend mit der Physiklehrausbildung an Hochschulen Universitäten befasst An der Darstellung von physikalischen Grundlagen aktueller physikalischer Forschung Teil III beteiligten sich Physiker aus den beiden Münchner Universitäten LMU und TU und der Universität Würzburg **FIB Nanostructures** Zhiming M. Wang, 2014-01-04 FIB Nanostructures reviews a range of methods including milling etching deposition and implantation applied to manipulate structures at the nanoscale

Focused Ion Beam FIB is an important tool for manipulating the structure of materials at the nanoscale and substantially extends the range of possible applications of nanofabrication FIB techniques are widely used in the semiconductor industry and in materials research for deposition and ablation including the fabrication of nanostructures such as nanowires nanotubes nanoneedles graphene sheets quantum dots etc The main objective of this book is to create a platform for knowledge sharing and dissemination of the latest advances in novel areas of FIB for nanostructures and related materials and devices and to provide a comprehensive introduction to the field and directions for further research Chapters written by leading scientists throughout the world create a fundamental bridge between focused ion beam and nanotechnology that is intended to stimulate readers interest in developing new types of nanostructures for application to semiconductor technology These applications are increasingly important for the future development of materials science energy technology and electronic devices The book can be recommended for physics electrical engineering and materials science departments as a reference on materials science and device design

Physical Properties of Ceramic and Carbon Nanoscale Structures

Stefano Bellucci, 2011-02-28 This is the second volume in a series of books on selected topics in Nanoscale Science and Technology based on lectures given at the well known INFN schools of the same name The aim of this collection is to provide a reference corpus of suitable introductory material to relevant subfields as they mature over time by gathering the significantly expanded and edited versions of tutorial lectures given over the years by internationally known experts The present set of notes stems in particular from the participation and dedication of prestigious lecturers such as Andrzej Huczko Nicola Pugno Alexander Malesevic Pasquale Onorato and Stefano Bellucci All lectures were subsequently carefully edited and reworked taking into account the extensive follow up discussions A tutorial lecture by Huczko et al shows how a variety of carbon and ceramic nanostructures nanotubes nanowires nanofibres nanorods and nanoencapsulates have in particular great potential for improving our understanding of the fundamental concepts of the roles of both dimensionality and size on physical material properties Bellucci and Onorato provide an extensive and tutorial review of the quantum transport properties in carbon nanotubes encompassing a description of the electronic structure from graphene to single wall nanotubes as well as a discussion of experimental evidence of superconductivity in carbon nanotubes and the corresponding theoretical interpretation In the first contribution by Pugno new ideas on how to design futuristic self cleaning super adhesive and releasable hierarchical smart materials are presented He also reviews the mechanical strength of such nanotubes and megacables with an eye to the visionary project of a carbon nanotube based space elevator megacable In his second contribution Pugno outlines in detail the role on the fracture strength of thermodynamically unavoidable atomistic defects with different size and shape both numerically and theoretically for nanotubes and nanotube bundles Focusing on graphitic allotropes the chapter by Bellucci and Malesevic aims to give a taste of the widespread implications carbon nanostructures have on research and applications starting from an historical overview followed by a discussion of the

structure and physical properties of carbon nanotubes and graphene in particular in the context of the several different synthesis techniques presently available *Nucleation Theory and Growth of Nanostructures* Vladimir G.

Dubrovskii, 2013-12-04 Semiconductor nanostructures such as nanowires are promising building blocks of future nanoelectronic nanophotonic and nanosensing devices Their physical properties are primarily determined by the epitaxy process which is rather different from the conventional thin film growth This book shows how the advanced nucleation theory can be used in modeling of growth properties morphology and crystal phase of such nanostructures The book represents a systematic account of modern nucleation theory in open systems nanostructure nucleation and growth mechanisms and possibilities for tuning the nanostructure properties to the desired values **Theoretical Modeling of Inorganic**

Nanostructures R.A. Evarestov, 2015-01-23 This book deals with the theoretical and computational simulation of monoperiodic nanostructures for different classes of inorganic substances These simulations are related to their synthesis and experimental studies A theoretical formalism is developed to describe 1D nanostructures with symmetric shapes and morphologies Three types of models are considered for this aim i nanotubes rolled from 2D nanolayers and described within the formalism of line symmetry groups ii nanoribbons obtained from 2D nanolayers by their cutting along the chosen direction of translation iii nanowires obtained from 3D lattice by its sectioning along the crystalline planes parallel to the chosen direction of translation Quantum chemistry ab initio methods applied for LCAO calculations on electronic and vibrational properties of 1D nanostructures are thoroughly described Understanding of theoretical aspects presented here enlarges the possibilities for synthesis of monoperiodic nanostructures with predictable morphology and better interpretation of their properties B-C-N Nanotubes and Related Nanostructures Yoke Khin Yap, 2009-05-28 Carbon nanotubes CNTs and Boron nitride nanotubes BNNTs are part of the so called B C N material system which includes novel nanostructures of carbon C doped carbon boron B boron nitride BN carbon nitride CN_x boron carbon nitride B_xC_yN_z and boron carbide B_xC_y BNNTs and CNTs are structurally similar and share extraordinary mechanical properties but they differ in chemical biological optical and electrical properties Therefore hybrid nanotubes constructed of B C N elements are expected to form a new class of nanotubes with tunable properties between those of CNTs and BNNTs In addition these B C N nanostructures will further enhance and complement the applications of CNTs and BNNTs With contributions from leading experts B C N Nanotubes and Related Nanostructures is the first book to cover all theoretical and experimental aspects of this emerging material system and meets the need for a comprehensive summary of the tremendous advances in research on B C N materials in recent years **Nanoscale Photonics and Optoelectronics** Zhiming M Wang, Arup Neogi, 2010-11-16 The

intersection of nanostructured materials with photonics and electronics shows great potential for clinical diagnostics sensors ultrafast telecommunication devices and a new generation of compact and fast computers Nanophotonics draws upon cross disciplinary expertise from physics materials science chemistry electrical engineering biology and medicine to create novel

technologies to meet a variety of challenges This is the first book to focus on novel materials and techniques relevant to the burgeoning area of nanoscale photonics and optoelectronics including novel hybrid materials with multifunctional capabilities and recent advancements in the understanding of optical interactions in nanoscale materials and quantum confined objects Leading experts provide a fundamental understanding of photonics and the related science and technology of plasmonics polaritons quantum dots for nanophotonics nanoscale field emitters near field optics nanophotonic architecture and nanobiophotonic materials

Chiral Nanophotonics Martin Schäferling, 2016-11-11 This book describes the physics behind the optical properties of plasmonic nanostructures focusing on chiral aspects It explains in detail how the geometry determines chiral near fields and how to tailor their shape and strength Electromagnetic fields with strong optical chirality interact strongly with chiral molecules and therefore can be used for enhancing the sensitivity of chiroptical spectroscopy techniques Besides a short review of the latest results in the field of plasmonically enhanced enantiomer discrimination this book introduces the concept of chiral plasmonic near field sources for enhanced chiroptical spectroscopy The discussion of the fundamental properties of these light sources provides the theoretical basis for further optimizations and is of interest for researchers at the intersection of nano optics plasmonics and stereochemistry

Nanoscale Phenomena Zikang Tang, Ping Sheng, 2007-11-22 Nanotechnology is the result of the continuing technological trend toward device miniaturization and the characterization manipulation and fine control of structure and function at diminishing length scales A large class of nanoscale materials can be stable even though they are far from the lowest energy thermodynamic state and many possess novel properties unattainable in bulk These trends are supported by the increasing sophistication of characterization and fabrication tools such as the scanning tunneling microscope and the transmission electron microscope which allow the resolution and manipulation of single atoms and molecules Nanoscale Phenomena Basic Science to Device Applications presents selected lectures from the Third Workshop of the Croucher Advanced Study Institute on Nano Science and Technology and showcases contributions from world renowned researchers Chapters fall into four major categories Nanostructured Carbon and its Applications Quantum Dots and Molecular Spintronics Nanomaterials Design and Synthesis and Molecular Electronics

Fractional Kinetics in Solids Vladimir Vasil'evich Uchaikin, Renat Sibatov, 2013 The standard Markovian transport model based on the Boltzmann equation cannot describe some non equilibrium processes called anomalous that take place in many disordered solids Causes of anomaly lie in non uniformly scaled fractal spatial heterogeneities in which particle trajectories take cluster form Furthermore particles can be located in some domains of small sizes traps for a long time Estimations show that path length and waiting time distributions are often characterized by heavy tails of the power law type This behavior allows the introduction of time and space derivatives of fractional orders Distinction of path length distribution from exponential is interpreted as a consequence of media fractality and analogous property of waiting time distribution as a presence of memory In this book a novel approach using equations with derivatives

of fractional orders is applied to describe anomalous transport and relaxation in disordered semiconductors dielectrics and quantum dot systems A relationship between the self similarity of transport the Levy stable limiting distributions and the kinetic equations with fractional derivatives is established It is shown that unlike the well known Scher Montroll and Arkhipov Rudenko models which are in a sense alternatives to the normal transport model fractional differential equations provide a unified mathematical framework for describing normal and dispersive transport The fractional differential formalism allows the equations of bipolar transport to be written down and transport in distributed dispersion systems to be described The relationship between fractional transport equations and the generalized limit theorem reveals the probabilistic aspects of the phenomenon in which a dispersive to Gaussian transport transition occurs in a time of flight experiment as the applied voltage is decreased and or the sample thickness increased Recent experiments devoted to studies of transport in quantum dot arrays are discussed in the framework of dispersive transport models The memory phenomena in systems under consideration are discussed in the analysis of fractional equations It is shown that the approach based on the anomalous transport models and the fractional kinetic equations may be very useful in some problems that involve nano sized systems These are photon counting statistics of blinking single quantum dot fluorescence relaxation of current in colloidal quantum dot arrays and some others

Nanoparticles and Nanodevices in Biological Applications Stefano Bellucci,2008-10-24

The first volume in a series on selected topics in nanoscale science and technology this book is based on lectures given at the well known INFN schools The aim of the collection is to provide a reference corpus of introductory material to relevant subfields

Liquid and Crystal Nanomaterials for Water Pollutants Remediation Uma Shanker,Manviri Rani,2022-07-07

Nanoscience technology is playing a vital role in multidisciplinary research due to its unique characteristics at nanoscale as compared to bulk materials In view of such excellent properties like high surface area semiconducting nature and non toxicity nanotechnology has emerged as a promising means to curb pollution Liquid and crystal nanomaterials aim for products and processes that are ecofriendly economically sustainable safe and energy efficient One of the most popular fields widely adopted is photocatalysis of nanomaterials that involves photo conduction in efficient removal degradation of noxious pollutants This book focuses on generation of liquid and crystal nanomaterials for environmental remediation

Deutsche Nationalbibliografie Die deutsche Nationalbibliothek,2008

Nanodroplets Zhiming M. Wang,2014-01-08

Nanodroplets the basis of complex and advanced nanostructures such as quantum rings quantum dots and quantum dot clusters for future electronic and optoelectronic materials and devices have attracted the interdisciplinary interest of chemists physicists and engineers This book combines experimental and theoretical analyses of nanosized droplets which reveal many attractive properties Coverage includes nanodroplet synthesis structure unique behaviors and their nanofabrication including chapters on focused ion beam atomic force microscopy molecular beam epitaxy and the vapor liquid solid route Particular emphasis is given to the behavior of metallic nanodroplets water nanodroplets and nanodroplets in polymer and metamaterial

nanocomposites The contributions of leading scientists and their research groups will provide readers with deeper insight into the chemical and physical mechanisms properties and potential applications of various nanodroplets *Nanoscale Thermoelectrics* Xiaodong Wang,Zhiming M. Wang,2013-11-18 For the efficient utilization of energy resources and the minimization of environmental damage thermoelectric materials can play an important role by converting waste heat into electricity directly Nanostructured thermoelectric materials have received much attention recently due to the potential for enhanced properties associated with size effects and quantum confinement *Nanoscale Thermoelectrics* describes the theory underlying these phenomena as well as various thermoelectric materials and nanostructures such as carbon nanotubes SiGe nanowires and graphene nanoribbons Chapters written by leading scientists throughout the world are intended to create a fundamental bridge between thermoelectrics and nanotechnology and to stimulate readers interest in developing new types of thermoelectric materials and devices for power generation and other applications *Nanoscale Thermoelectrics* is both a comprehensive introduction to the field and a guide to further research and can be recommended for Physics Electrical Engineering and Materials Science departments *Self-Assembled Quantum Dots* Zhiming M Wang,2007-11-29 This multidisciplinary book provides up to date coverage of carrier and spin dynamics and energy transfer and structural interaction among nanostructures Coverage also includes current device applications such as quantum dot lasers and detectors as well as future applications to quantum information processing The book will serve as a reference for anyone working with or planning to work with quantum dots *Toward Functional Nanomaterials* Zhiming M Wang,2010-03-14 This book presents a detailed overview of recent research developments on functional nanomaterials including synthesis characterization and applications This state of the art book is multidisciplinary in scope and international in authorship

Nonregular Nanosystems Yuri Shunin,Stefano Bellucci,Alytis Gruodis,Tamara Lobanova-Shunina,2017-11-27 This book presents a systemic view of nanophenomena in terms of disordered condensed media with characteristics arising at various hierarchical levels from nanoagents nanoparticles through multiple technological interfaces to the creation of micro or mesostructures with essential nanodimensional effects These properties can be seen in various schemes for the functionalization of nanocarbon systems namely CNTs GNRs GNFs carbon based nanoaerogels nanofoams and so on where nonregularities characterize surface nanointeractions and various nanointerconnects resulting in both predictable and unpredictable effects Beginning with nanosensing and finishing with other forms of functionalized nanomaterials these effects will define the prospective qualities of future consumer nanoproducts and nanodevices This book covers all aspects of nonregular nanosystems arising from the fundamental properties of disordered nanosized media from electronic structure surface nanophysics and allotropic forms of carbon such as graphene and fullerenes including defect characterization to spintronics and 3D device principles *Nonregular Nanosystems* will be of interest to students and specialists in various fields of nanotechnology and nanoscience experts on surface nanophysics and nanochemistry as well as managers dealing with

marketing of nanoproducts and consumer behavior research *Isotopes in Nanoparticles* Jordi Llop, Vanessa Gomez-Vallejo, 2016-03-30 Nanoparticles may be used in industrial processes incorporated into consumer products or applied as biomedical agents Isotopic radio labeling is one of the most powerful methods for nanoparticle tracing in experimental studies This book presents an introduction to some commonly used nanomaterials describes various methods with which they may

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