LECTURE NOTES IN NANOSCALE SCIENCE AND TECHNOLOGY 3

Zhiming M. Wang
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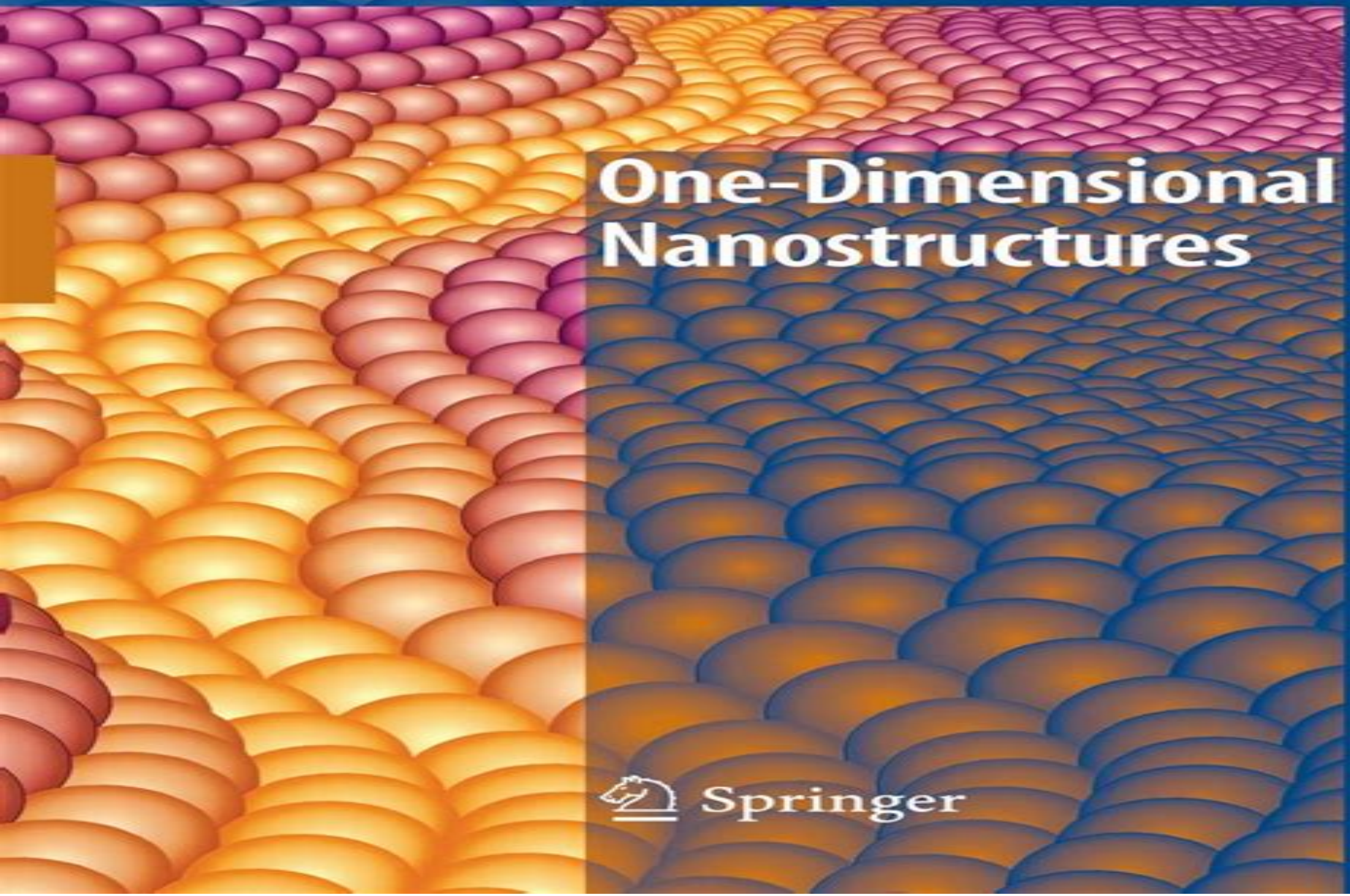
One-Dimensional Nanostructures



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One Dimensional Nanostructures Lecture Notes In Nanoscale Science And Technology

Christopher L. Dwyer,Alvin R. Lebeck

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 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 CNx boron carbon nitride BxCyNz and boron carbide BxCy 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 *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 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 *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 Fractional Kinetics in Solids Vladimir Vasilʹevich Uchaĭkin,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 anomality 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 **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 *One-Dimensional Nanostructures* Tianyou Zhai,Jiannian Yao,2012-10-19 Reviews the latest research breakthroughs and applications Since the discovery of carbon nanotubes in 1991 one dimensional nanostructures have been at the forefront of nanotechnology research promising to provide the building blocks for a new generation of nanoscale electronic and optoelectronic devices With contributions from 68 leading international experts this book reviews both the underlying principles as well as the latest discoveries and applications in the field presenting the state of the technology Readers will find expert coverage of all major classes of one dimensional nanostructures including carbon nanotubes semiconductor nanowires organic molecule nanostructures polymer nanofibers peptide nanostructures and supramolecular nanostructures Moreover the book offers unique insights into the future of one dimensional nanostructures with expert forecasts of new research breakthroughs and applications One Dimensional Nanostructures collects and analyzes a wealth of key research findings and applications with detailed coverage of Synthesis Properties Energy applications Photonics and optoelectronics applications Sensing plasmonics electronics and biosciences applications Practical case studies demonstrate how the latest applications work Tables throughout the book summarize key information and diagrams enable readers to grasp complex concepts and designs References at the end of each chapter serve as a gateway to the literature in the field With its clear explanations of the underlying principles of one dimensional nanostructures this book is ideal for students researchers and academics in chemistry physics materials science and engineering Moreover One Dimensional Nanostructures will help readers advance their own investigations in order to develop the next generation of applications **Deutsche Nationalbibliografie** Die deutsche Nationalbibliothek,2008 Journal of Nanoscience and Nanotechnology ,2002 Science ,2011 *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 andtheoretically 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 *Introduction to Nanoscale Science and Technology* Massimiliano Di Ventra,Stephane Evoy,James R. Heflin,2004-06-30 From the reviews A class in nanoscale science and technology is daunting for the educator who must organize a large collection of materials to cover the field and for the student who must absorb all the new concepts This textbook is an excellent resource that allows students from any engineering background to quickly understand the foundations and exciting advances of the field The example problems with answers and the long list of references in each chapter are a big plus for course tutors The book is organized into seven sections The first nanoscale fabrication and characterization covers nanolithography self assembly and scanning probe microscopy Of these we enjoyed the section on nanolithography most as it includes many interesting details from industrial manufacturing processes The chapter on self assembly also provides an excellent overview by introducing six types of intermolecular interactions and the ways these can be employed to fabricate nanostructures The second section covers nanomaterials and nanostructures Out of its 110 pages 45 are devoted to carbon nanotubes Fullerenes and quantum dots each have their own chapter that focuses on the properties and applications of these nanostructures Nanolayer nanowire and nanoparticle composites of metals and semiconductors are briefly covered just 12 pages with slightly more discussion of specific applications The section on nanoscale electronics begins with a history of microelectronics before discussing the difficulties in shrinking transistor size further The discussion of problems leakage current hot electrons doping fluctuations etc and possible solutions high k dielectrics double gate

devices could easily motivate deeper discussions of nanoscale electrical transport A chapter on molecular electronics considers transport through alkanes molecular transistors and DNA in a simple qualitative manner we found highly instructive Nanoscale magnetic systems are examined in the fourth section The concept of quantum computation is nicely presented although the discussion of how this can be achieved with controlled spin states is perhaps necessarily not clear We found the chapter on magnetic storage to be one of the most lucid in the book The giant magnetoresistive effect operation of spin valves and issues in magnetic scaling are easier to understand when placed in the context of the modern magnetic hard disk drive Micro and nanoelectromechanical systems are covered with an emphasis on the integration of sensing computation and communication Here the student can see advanced applications of lithography The sixth section nanoscale optoelectronics describes quantum dots organic optoelectronics and photonic crystals The chapter on organic optoelectronics is especially clear in its discussion of the fundamentals of this complicated field The book concludes with an overview of nanobiotechnology that covers biomimetics biomolecular motors and nanofluidics Because so many authors have contributed to this textbook it suffers a bit from repetition However this also allows sections to be omitted without any adverse effect on student comprehension We would have liked to see more technology to balance the science apart from the chapters on lithography and magnetic storage little more than an acknowledgment is given to commercial applications Overall this book serves as an excellent starting point for the study of nanoscale science and technology and we recommend it to anyone with a modest scientific background It is also a great vehicle to motivate the study of science at a time when interest is waning Nanotechnology educators should look no further MATERIALS TODAY June 2005 **Introduction to Nanoscience** Gabor L. Hornyak,2008-05-15 Tomorrow s nanoscientist will have a truly interdisciplinary and nano centric education rather than for example a degree in chemistry with a specialization in nanoscience For this to happen the field needs a truly focused and dedicated textbook This full color masterwork is such a textbook It introduces the nanoscale along with the societal impacts of nanoscience then presents an overview of characterization and fabrication methods The authors systematically discuss the chemistry physics and biology aspects of nanoscience providing a complete picture of the challenges opportunities and inspirations posed by each facet before giving a brief glimpse at nanoscience in action nanotechnology This book is written to provide a companion volume to Fundamentals of Nanotechnology The two companion volumes are also available bound together in the single volume Introduction to Nanoscience and Nanotechnology Qualifying instructors who purchase either of these volumes or the combined set are given online access to a wealth of instructional materials These include detailed lecture notes review summaries slides exercises and more The authors provide enough material for both one and two semester courses Nanostructures and Nanomaterials Guozhong Cao,Ying Wang,2011 This text focuses on the synthesis properties and applications of nanostructures and nanomaterials particularly inorganic nanomaterials It provides coverage of the fundamentals and processing techniques with regard to synthesis properties characterization and applications of

nanostructures and nanomaterials Self-Assembly of Nanostructures Stefano Bellucci,2011-10-27 This is the third volume in a series of books on selected topics in Nanoscale Science and Technology based on lectures given at the well known Istituto Nazionale di Fisica Nucleare INFN schools of the same name The present set of notes stems in particular from the participation and dedication of prestigious lecturers such as Nunzio Motta Fulvia Patella Alexandr Toropov and Anna Sgarlata All lectures have been carefully edited and reworked taking into account extensive follow up discussions A tutorial lecture by Motta et al presents the analysis of the Poly 3 hexylthiophene self assembly on carbon nanotubes and discusses how the interaction between the two materials forms a new hybrid nanostructure with potential application to future solar cells technology In their contribution Patella et al review quantum dots of III V compounds which offer appealing perspectives for more sophisticated applications in new generation devices such as single photon emitters for nano photonics and quantum computing Focusing on self assembled quantum dots the chapter by Alexandr Toropov et al provides a comprehensive review of some important aspects in the formation of quantum dots and presents the results of the authors extensive investigation of the features of droplet epitaxy The fourth contribution by Sgarlata et al focuses on recent progress toward controlled growth of self assembled nanostructures dealing with the shaping ordering and localization in Ge Si heteroepitaxy and reviewing recent results on the self organization of Ge nanostructures at Si surfaces Chinese journal of computers ,2008 *Nanoscale Phenomena* Zikang Tang,Ping Sheng,2007-12-06 This book collects selected lectures from the Third Workshop of the Croucher Advanced Study Institute on Nano Science and Technology and showcases contributions from world renowned researchers The book presents in depth articles on the latest developments in nanomaterials and nanotechnology and provides a cross disciplinary perspective covering physics and biophysics chemistry materials science and engineering Introduction to DNA Self-assembled Computer Design Christopher L. Dwyer,Alvin R. Lebeck,2008 The use of DNA self assembly in microchip fabrication may well revolutionize computing and this trailblazing book is the first to bridge the gap between current chip technology and the molecular scale circuitries that lie ahead

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