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Zhiming M. Wang *Editors*

Toward Quantum FinFET



Springer

Toward Quantum Finfet Lecture Notes In Nanoscale Science And Technology

Dmitry Ryndyk



Toward Quantum Finfet Lecture Notes In Nanoscale Science And Technology:

Toward Quantum FinFET Weihua Han, Zhiming M. Wang, 2013-11-23 This book reviews a range of quantum phenomena in novel nanoscale transistors called FinFETs including quantized conductance of 1D transport single electron effect tunneling transport etc The goal is to create a fundamental bridge between quantum FinFET and nanotechnology to stimulate readers interest in developing new types of semiconductor technology Although the rapid development of micro nano fabrication is driving the MOSFET downscaling trend that is evolving from planar channel to nonplanar FinFET silicon based CMOS technology is expected to face fundamental limits in the near future Therefore new types of nanoscale devices are being investigated aggressively to take advantage of the quantum effect in carrier transport The quantum confinement effect of FinFET at room temperatures was reported following the breakthrough to sub 10nm scale technology in silicon nanowires With chapters written by leading scientists throughout the world *Toward Quantum FinFET* provides a comprehensive introduction to the field as well as a platform for knowledge sharing and dissemination of the latest advances As a roadmap to guide further research in an area of increasing importance for the future development of materials science nanofabrication technology and nano electronic devices the book can be recommended for Physics Electrical Engineering and Materials Science departments and as a reference on micro nano electronic science and device design Offers comprehensive coverage of novel nanoscale transistors with quantum confinement effect Provides the keys to understanding the emerging area of the quantum FinFET Written by leading experts in each research area Describes a key enabling technology for research and development of nanofabrication and nanoelectronic devices *Introductory Quantum Mechanics for Semiconductor Nanotechnology* Dae Mann Kim, 2010-04-26 Dieses von der Korean Nanotechnology Research Society als Lehrbuch empfohlene Werk hebt sich von anderen Einf hrungen in die Quantenmechanik ab Stark anwendungsbezogen bespricht der lehrerfahrene Autor quantenmechanische Aspekte der Halbleiter Nanotechnologie die er durch viele Mainstream Applikationen illustriert Unter anderem erl utert er Photodetektoren Laserdioden Solarzellen Transistoren und Schottky Kontakte Die mathematischen Herleitungen sind auf ein Minimum beschr nkt daf r legt der Autor besonderen Wert auf den technischen Background und nicht zuletzt auf eine st ndige Motivation seiner Leser Mit zahlreichenbungsaufgaben L sungen L sungsheft f r Dozenten und Pr sentationsmaterial *Introduction to Quantum Nanotechnology* Duncan G. Steel, 2021 This book serves as introduction to quantum theory with emphasis on dynamical behaviour and applications of quantum mechanics with minimal discussion of formalism The goal is to help engineering and physics students begin to learn the tools for a quantum toolbox they will need to work in this area **Quantum Nanoelectronics** Edward L. Wolf, 2015-11-20 A tutorial coverage of electronic technology starting from the basics of condensed matter and quantum physics Experienced author Ed Wolf presents established and novel devices like Field Effect and Single Electron Transistors and leads the reader up to applications in data storage quantum computing and energy harvesting Intended to be

self contained for students with two years of calculus based college physics with corresponding fundamental knowledge in mathematics computing and chemistry

Quantum Mechanics for Nanostructures Vladimir Vasil'evich Mitin,Dmitry I. Sementsov,Nizami Z. Vagidov,2010-05-20 Textbook introducing engineers to quantum mechanics and nanostructures covering the fundamentals and applications to nanoscale materials and nanodevices

Theory of Quantum Transport at Nanoscale Dmitry Ryndyk,2019-03-27 This book is an introduction to a rapidly developing field of modern theoretical physics the theory of quantum transport at nanoscale The theoretical methods considered in the book are in the basis of our understanding of charge spin and heat transport in nanostructures and nanostructured materials and are widely used in nanoelectronics molecular electronics spin dependent electronics spintronics and bio electronics The book is based on lectures for graduate and post graduate students at the University of Regensburg and the Technische Universit t Dresden TU Dresden The first part is devoted to the basic concepts of quantum transport Landauer B ttiker method and matrix Green function formalism for coherent transport Tunneling Transfer Hamiltonian and master equation methods for tunneling Coulomb blockade vibrons and polarons The results in this part are obtained as possible without sophisticated techniques such as nonequilibrium Green functions which are considered in detail in the second part A general introduction into the nonequilibrium Green function theory is given The approach based on the equation of motion technique as well as more sophisticated one based on the Dyson Keldysh diagrammatic technique are presented The main attention is paid to the theoretical methods able to describe the nonequilibrium at finite voltage electron transport through interacting nanosystems specifically the correlation effects due to electron electron and electron vibron interactions

Introductory Quantum Mechanics for Applied Nanotechnology Dae Mann Kim,2015-02-12 This introductory textbook covers fundamental quantum mechanics from an application perspective considering optoelectronic devices biological sensors and molecular imagers as well as solar cells and field effect transistors The book provides a brief review of classical and statistical mechanics and electromagnetism and then turns to the quantum treatment of atoms molecules and chemical bonds Aiming at senior undergraduate and graduate students in nanotechnology related areas like physics materials science and engineering the book could be used at schools that offer interdisciplinary but focused training for future workers in the semiconductor industry and for the increasing number of related nanotechnology firms and even practicing people could use it when they need to learn related concepts The author is Professor Dae Mann Kim from the Korea Institute for Advanced Study who has been teaching Quantum Mechanics to engineering material science and physics students for over 25 years in USA and Asia

Physical and chemical principles of nanotechnology Naveen Kumar J R,P. Prasad,2019-04-29 Document from the year 2019 in the subject Physics Nuclear Physics grade A course Nanotechnology language English abstract Physical and chemical principles of nanotechnology present the subject with the aim of providing information about Quantum Mechanics Basics of Thermodynamics Lattice Vibrations and Band Theory of Solids Semiconductors and Tunneling Colloidal Systems

This work is primarily intended to be a textbook for bachelor degree students in engineering science and technology. This book has a crucial role to play in the curriculum of all branches of engineering and technology. Quantum mechanics is a physical science dealing with the behaviour of matter and energy on the scale of atoms and subatomic particles. It also forms the basis for the contemporary understanding of how huge objects such as stars and galaxies and cosmological events such as the Big Bang can be analyzed and explained. Quantum mechanics is the foundation of several related disciplines including nanotechnology, condensed matter physics, quantum chemistry, structural biology, particle physics, and electronics. The term quantum mechanics was first coined by Max Born in 1924. The acceptance by the general physics community of quantum mechanics is due to its accurate prediction of the physical behaviour of systems including systems where Newtonian mechanics fails. Even general relativity is limited in ways quantum mechanics is not for describing systems at the atomic scale or smaller at very low or very high energies or the lowest temperatures. Through a century of experimentation and applied science, the quantum mechanical theory has proven to be very successful and practical. The foundations of quantum mechanics date from the early 1800s but the real beginnings of QM date from the work of Max Planck in 1900. Albert Einstein and Niels Bohr soon made essential contributions to what is now called the old quantum theory.

Quantum Nanoelectronics Edward L. Wolf, 2009-04-27 A tutorial coverage of electronic technology starting from the basics of condensed matter and quantum physics. Experienced author Ed Wolf presents established and novel devices like Field Effect and Single Electron Transistors and leads the reader up to applications in data storage, quantum computing, and energy harvesting. Intended to be self-contained for students with two years of calculus-based college physics with corresponding fundamental knowledge in mathematics, computing, and chemistry.

Quantum Transport Yuli V. Nazarov, Yaroslav M. Blanter, 2009-05-28 Quantum transport is a diverse field sometimes combining seemingly contradicting concepts: quantum and classical conduction and insulating within a single nanodevice. Quantum transport is an essential and challenging part of nanoscience, and understanding its concepts and methods is vital to the successful fabrication of devices at the nanoscale. This textbook is a comprehensive introduction to the rapidly developing field of quantum transport. The authors present the comprehensive theoretical background and explore the groundbreaking experiments that laid the foundations of the field. Ideal for graduate students, each section contains control questions and exercises to check readers' understanding of the topics covered. Its broad scope and in-depth analysis of selected topics will appeal to researchers and professionals working in nanoscience.

Nonequilibrium Quantum Transport Physics In Nanosystems: Foundation Of Computational Nonequilibrium Physics In Nanoscience And Nanotechnology Felix A. Buot, 2009-08-05 This book presents the first comprehensive treatment of discrete phase space quantum mechanics and the lattice Weyl-Wigner formulation of energy band dynamics by the originator of these theoretical techniques. The author's quantum superfield theoretical formulation of nonequilibrium quantum physics is given in real time without the awkward use of artificial time contour employed in previous

formulations These two main quantum theoretical techniques combine to yield general including quasiparticle pairing dynamics and exact quantum transport equations in phase space appropriate for nanodevices The derivation of transport formulas in mesoscopic physics from the general quantum transport equations is also treated Pioneering nanodevices are discussed in the light of the quantum transport physics equations and an in depth treatment of the physics of resonant tunneling devices is given Operator Hilbert space methods and quantum tomography are discussed Discrete phase space quantum mechanics on finite fields is treated for completeness and by virtue of its relevance to quantum computing The phenomenological treatment of evolution superoperator and measurements is given to help clarify the general quantum transport theory Quantum computing and information theory is covered to demonstrate the foundational aspects of discrete quantum dynamics particularly in deriving a complete set of multiparticle entangled basis states Quantum Science and Technology at the Nanoscale D. Loss,2010 **Theoretical Foundations of Nanoscale Quantum Devices** Malin Premaratne,Govind P. Agrawal,2021-01-07

Nanooptics which describes the interaction of light with matter at the nanoscale is a topic of great fundamental interest to physicists and engineers and allows the direct observation of quantum mechanical phenomena in action This self contained and extensively referenced text describes the underlying theory behind nanodevices operating in the quantum regime for use both in advanced courses and as a reference for researchers in physics chemistry electrical engineering and materials science Presenting an extensive theoretical toolset for design and analysis of nanodevices the authors demonstrate the art of developing approximate quantum models of real nanodevices The rudimentary mathematical knowledge required to master the material is carefully introduced with detailed derivations and frequent worked examples allowing readers to gain a thorough understanding of the material More advanced applications are gradually introduced alongside analytical approximations and simplifying assumptions often used to make such problems tractable while representative of the observed features Dissipative Quantum Mechanics of Nanostructures Andrei D. Zaikin,Dmitry Golubev,2019-05-24 Continuing miniaturization of electronic devices together with the quickly growing number of nanotechnological applications demands a profound understanding of the underlying physics Most of the fundamental problems of modern condensed matter physics involve various aspects of quantum transport and fluctuation phenomena at the nanoscale In nanostructures electrons are usually confined to a limited volume and interact with each other and lattice ions simultaneously suffering multiple scattering events on impurities barriers surface imperfections and other defects Electron interaction with other degrees of freedom generally yields two major consequences quantum dissipation and quantum decoherence In other words electrons can lose their energy and ability for quantum interference even at very low temperatures These two different but related processes are at the heart of all quantum phenomena discussed in this book This book presents copious details to facilitate the understanding of the basic physics behind a result and the learning to technically reproduce the result without delving into extra literature The book subtly balances the

description of theoretical methods and techniques and the display of the rich landscape of the physical phenomena that can be accessed by these methods It is useful for a broad readership ranging from master s and PhD students to postdocs and senior researchers

Nanoelectronics Vijay Kumar Arora, 2018-10-08 Brings the Band Structure of Carbon Based Devices into the Limelight A shift to carbon is positioning biology as a process of synthesis in mainstream engineering Silicon is quickly being replaced with carbon based electronics devices are being reduced down to nanometer scale and further potential applications are being considered While traditionally engineers are trained by way of physics chemistry and mathematics *Nanoelectronics Quantum Engineering of Low Dimensional Nanoensembles* establishes biology as an essential basic science for engineers to explore Unifies Science and Engineering from Quantum Physics to Nanoengineering Drawing heavily on published papers by the author this research driven text offers a complete review of nanoelectronic transport starting from quantum waves to ohmic and ballistic conduction and saturation limited extreme nonequilibrium conditions In addition it highlights a new paradigm using non equilibrium Arora s Distribution Function NEADF and establishes this function as the starting point from band theory to equilibrium to extreme nonequilibrium carrier statistics The author focuses on nano electronic device design and development including carbon based devices and provides you with a vantage point for the global outlook on the future of nanoelectronics devices and ULSI Encompassing ten chapters this illuminating text Converts the electric field response of drift velocity into current voltage relationships that are driven by the presence of critical voltage and saturation current arising from the unidirectional drift of carriers Applies the effect of these scaled down dimensions to nano MOSFET metal oxide semiconductor field effect transistor Considers specialized applications that can be tried through a number of suggested projects that are all feasible with MATLAB codes *Nanoelectronics Quantum Engineering of Low Dimensional Nanoensembles* contains the latest research in nanoelectronics identifies problems and other factors to consider when it comes to nanolayer design and application and ponders future trends Print Versions of this book also include access to the ebook version

Excitonic and Vibrational Dynamics in Nanotechnology Svetlana Kilina, Bradley G. Habenicht, 2019-10-10 The book investigates QDs and SWCNTs using quantum chemical calculations that describe intricate details of excited state phenomena and provides information about the mechanisms that occur on the atomic level and that are extremely difficult if not impossible to probe experimentally It delivers consistently and coherently a novel approach to nanomaterials which is promising for today s technologies as well as their future This approach elegantly overcomes computational difficulties known in the field and shares ways to reach top performance in the description of combined quantum effects of molecular vibrations and exciton formation on realistic size numerical models The reader will acquire an understanding of the pioneering methodolo

Quantum and Optical Dynamics of Matter for Nanotechnology Putz, Mihai V., 2013-10-31 With the emergence of nanoscience and technology in the 21st century research has shifted its focus on the quantum and optical dynamical properties of matter such as atoms molecules and solids which are properly characterized in

their dynamic state Quantum and Optical Dynamics of Matter for Nanotechnology carefully addresses the general key concepts in this field and expands to more complex discussions on the most recent advancements and techniques related to quantum dynamics within the confines of physical chemistry This book is an essential reference for academics researchers professionals and advanced students interested in a modern discussion of a niche area of nanotechnology

Nanoscale Devices Gianfranco Cerofolini, 2009-08-26 The second half of the twentieth century and the beginning of the twenty first have been characterized by the most impressive industrial revolution ever seen In approximately 40 years the complexity of integrated circuits ICs has increased by a factor of 10 with a corresponding reduction of the cost per bit by eight orders of magnitude Not only has this evolution allowed dramatic progress in all scientific fields large computers space probes etc but also has fueled the economic development with the rise of new markets personal computers cellular phones etc and even social revolutions world wide web global village etc In last years however the situation has significantly changed the continuous scaling down of device size has eventually brought the IC major technique photolithography to its limits Overcoming its original limits has been proved to be possible but the price to pay for that has changed the playing rules while at the beginning of the IC history the evolution was driven by technology now it is driven by economy the cost of a medium size production plant being in the range of a few billion dollars

Quantum Transport Calculations for Nanosystems Kenji Hirose, Nobuhiko Kobayashi, 2014-04-11 As electric devices become smaller and smaller transport simulations based on the quantum mechanics become more and more important There are currently numerous textbooks on the basic concepts of quantum transport but few present calculation methods in detail This book provides various quantum transport simulation methods and shows applications

Physics of Zero- and One-Dimensional Nanoscopic Systems Sachindra Nath Karmakar, Santanu Kumar Maiti, Chowdhury Jayeeta, 2007-09-06 Submicron and nanoscale systems have risen on the research agenda Exploiting the technological potential offered by these exotic materials requires a fundamental understanding of basic physical phenomena on the mesoscopic and nanoscopic scales This book written by leading experts in the field covers such topics as the Kondo effect electron transport disorder and quantum coherence with electron-electron interaction persistent current and thermoelectric phenomena in quantum dots quantum wires carbon nanotubes and more

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