

Dmitry A. Ryndyk

Theory of Quantum Transport at Nanoscale

An Introduction

Theory Quantum Transport Nanoscale Introduction

Wolfram Schommers



Theory Quantum Transport Nanoscale Introduction:

Theory of Quantum Transport at Nanoscale Dmitry Ryndyk, 2015-12-08 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 Universität 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

An Introduction to Condensed Matter Physics for the Nanosciences Arthur McGurn, 2023-04-13 The book provides an accessible introduction to the principles of condensed matter physics with a focus on the nanosciences and device technologies The basics of electronic phononic photonic superconducting optics quantum optics and magnetic properties are explored and nanoscience and device materials are incorporated throughout the chapters Many examples of the fundamental principles of condensed matter physics are taken directly from nanoscience and device applications This book requires a background in electrodynamics quantum mechanics and statistical mechanics at the undergraduate level It will be a valuable reference for advanced undergraduates and graduate students of physics engineering and applied mathematics Features Contains discussions of the basic principles of quantum optics and its importance to lasers quantum information and quantum computation Provides references and a further reading list to additional scientific literature so that readers can use the book as a starting point to then follow up with a more advanced treatment of the topics covered Requires only a basic background in undergraduate electrodynamics quantum mechanics and statistical mechanics

Quantum Transport in Interacting Nanojunctions Andrea Donarini, Milena Grifoni, 2024-08-12 This book serves as an introduction to the growing field of quantum many body transport in interacting nanojunctions It delves into a theoretical approach based on a general density matrix formulation for open quantum systems In the book relevant transport observables like the current or its higher order cumulants are obtained by evaluating quantum statistical averages This approach requires the knowledge of the reduced density matrix of the interacting nanosystems The formulation for addressing transport problems based on the

evolution of the reduced density operator in Liouville space is highly versatile. It enables the treatment of charge and spin transport across various realistic nanostructures. Topics encompass standard Coulomb blockade, cotunneling phenomena in quantum dots, vibrational and Franck-Condon effects in molecular junctions, as well as many-body interference observed in double quantum dots or carbon nanotubes. Derived from lectures tailored for graduate and advanced students at the University of Regensburg in Germany, this book is enriched with exercises and step-by-step derivations. *Quantum*

Transport in Mesoscopic Systems David Sánchez, Michael Moskalets, 2021-01-06. Mesoscopic physics deals with systems larger than single atoms but small enough to retain their quantum properties. The possibility to create and manipulate conductors of the nanometer scale has given birth to a set of phenomena that have revolutionized physics: quantum Hall effects, persistent currents, weak localization, Coulomb blockade, etc. This Special Issue tackles the latest developments in the field. Contributors discuss time-dependent transport, quantum pumping, nanoscale heat engines and motors, molecular junctions, electron-electron correlations in confined systems, quantum thermoelectrics, and current fluctuations. The works included herein represent an up-to-date account of exciting research with a broad impact in both fundamental and applied topics. **Molecular Electronics: An Introduction To Theory And Experiment** Elke Scheer, Juan Carlos

Cuevas, 2010-06-23. This book provides a comprehensive overview of the rapidly developing field of molecular electronics. It focuses on our present understanding of the electrical conduction in single molecule circuits and provides a thorough introduction to the experimental techniques and theoretical concepts. It will also constitute as the first textbook-like introduction to both the experiment and theory of electronic transport through single atoms and molecules. In this sense, this publication will prove invaluable to both researchers and students interested in the field of nanoelectronics and nanoscience in general. Molecular Electronics is self-contained and unified in its presentation. It may be used as a textbook on nanoelectronics by graduate students and advanced undergraduates studying physics and chemistry. In addition, included are previously unpublished material that will help researchers gain a deeper understanding into the basic concepts involved in the field of molecular electronics. **Molecular Electronics: An Introduction To Theory And Experiment (2nd**

Edition) Elke Scheer, Juan Carlos Cuevas, 2017-05-19. Molecular Electronics is self-contained and unified in its presentation. It can be used as a textbook on nanoelectronics by graduate students and advanced undergraduates studying physics and chemistry. In addition, included in this new edition are previously unpublished material that will help researchers gain a deeper understanding into the basic concepts involved in the field of molecular electronics. **Theory of Quantum**

Transport in Metallic and Hybrid Nanostructures Andreas Glatz, Veniamin I. Kozub, Valerii M. Vinokur, 2006-07-26. The book reflects scientific developments in the physics of metallic compound-based nanodevices presented at the NATO-sponsored Workshop on nanophysics held in Russia in the summer of 2003. The program tackles the most appealing problems. It brings together specialists and provides an opportunity for young researchers from the partner countries to interact with

them and get actively involved in the most attractive and promising interdisciplinary area of contemporary condensed matter physics

Topics In Nanoscience - Part Ii: Quantized Structures, Nanoelectronics, Thin Films Nanosystems: Typical Results And Future Wolfram Schommers, 2021-12-17 With the development of the scanning tunneling microscope nanoscience became an important discipline Single atoms could be manipulated in a controlled manner and it became possible to change matter at its ultimate level it is the level on which the properties of matter emerge This possibility enables to construct and to produce devices materials etc with very small sizes and completely new properties That opens up new perspectives for technology and is in particular relevant in connection with nano engineering Nanosystems are unimaginably small and very fast No doubt this is an important characteristic But there is another feature possibly more relevant in connection with nanoscience and nanotechnology The essential point here is that we work at the ultimate level This is the smallest level at which the properties of our world emerge at which functional matter can exist In particular at this level biological individuality comes into existence This situation can be expressed in absolute terms This is not only the strongest material ever made this is the strongest material it will ever be possible to make D Ratner and M Ratner Nanotechnology and Homeland Security This is a very general statement All aspects of matter are concerned here Through the variation of the composition various forms of matter emerge with different items Nanosystems are usually small but they offer nevertheless the possibility to vary the structure of atomic molecular ensembles creating a diversity of new material specific properties A large variety of experimental possibilities come into play and flexible theoretical tools are needed at the basic level This is reflected in the different disciplines In nanoscience and nanotechnology we have various directions Materials science functional nanomaterials nanoparticles food chemistry medicine with brain research quantum and molecular computing bioinformatics magnetic nanostructures nano optics nano electronics etc The properties of matter which are involved within these nanodisciplines are ultimate in character i e their characteristic properties come into existence at this level The book is organized in this respect

Quantum Theory of Transport Properties of Single Molecules Yoshihiro Asai, Marius E. Bürkle, 2024-11-07 The quantum transport theory which dates back to the time of the Landauer theory in the field of mesoscopic physics is now expanding its power on materials science and chemistry by earning chemical accuracy and physical reality and has become a new subject of non equilibrium quantum transport theory for charge and heat at nanoscale This growing subject invites cross disciplinary developments for example the local heating theory developed earlier was examined and applied to the self heating problem in the field of semiconductor and nanoelectronic device physics This book compiles 25 key published papers to provide readers with convenient and comprehensive access to the important results and developments in the field The book will appeal to a wide range of readers from varied backgrounds especially those involved in charge and or heat transport problems that widely spread over various subjects in materials science chemistry electric engineering and condensed matter physics

21st Century Nanoscience Klaus D. Sattler, 2022-01-18 This 21st Century

Nanoscience Handbook 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 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 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 nanoscience 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

Topics In Nanoscience (In 2 Parts) Wolfram Schommers, 2021-12-17 With the development of the scanning tunneling microscope nanoscience became an important discipline Single atoms could be manipulated in a controlled manner and it became possible to change matter at its ultimate level it is the level on which the properties of matter emerge This possibility enables to construct and to produce devices materials etc with very small sizes and completely new properties That opens up new perspectives for technology and is in particular relevant in connection with nano engineering Nanosystems are unimaginably small and very fast No doubt this is an important characteristic But there is another feature possibly more relevant in connection with nanoscience and nanotechnology The essential point here is that we work at the ultimate level This is the smallest level at which the properties of our world emerge at which functional matter can exist In particular at this level biological individuality comes into existence This situation can be expressed in absolute terms This is not only the strongest material ever made this is the strongest material it will ever be possible to make D Ratner and M Ratner Nanotechnology and Homeland Security This is a very general statement All aspects of matter are concerned here Through the variation of the composition various forms of matter emerge with different items Nanosystems are usually small but they offer nevertheless the possibility to vary the structure of atomic molecular ensembles creating a diversity of new material specific properties A large variety of experimental possibilities come into play and flexible theoretical tools are needed at the basic level This is reflected in the different disciplines In nanoscience and nanotechnology we have various directions Materials science functional nanomaterials nanoparticles food chemistry medicine with brain research quantum and molecular computing bioinformatics magnetic nanostructures nano optics nano electronics etc The properties of matter which are involved within these nanodisciplines are ultimate in character i e their characteristic properties come into

existence at this level The book is organized in this respect **Handbook of Nanoscience, Engineering, and Technology** William A. Goddard III,Donald Brenner,Sergey Edward Lyshevski,Gerald J Iafrate,2018-09-03 In his 1959 address There is Plenty of Room at the Bottom Richard P Feynman speculated about manipulating materials atom by atom and challenged the technical community to find ways of manipulating and controlling things on a small scale This visionary challenge has now become a reality with recent advances enabling atomistic level tailoring and control of materials Exemplifying Feynman s vision Handbook of Nanoscience Engineering and Technology Third Edition continues to explore innovative nanoscience engineering and technology areas Along with updating all chapters this third edition extends the coverage of emerging nano areas even further Two entirely new sections on energy and biology cover nanomaterials for energy storage devices photovoltaics DNA devices and assembly digital microfluidic lab on a chip and much more This edition also includes new chapters on nanomagnet logic quantum transport at the nanoscale terahertz emission from Bloch oscillator systems molecular logic electronic optics in graphene and electromagnetic metamaterials With contributions from top scientists and researchers from around the globe this color handbook presents a unified up to date account of the most promising technologies and developments in the nano field It sets the stage for the next revolution of nanoscale manufacturing where scalable technologies are used to manufacture large numbers of devices with complex functionalities

Handbook of Nanoscience, Engineering, and Technology, Third Edition William A. Goddard III,Donald Brenner,Sergey Edward Lyshevski,Gerald J Iafrate,2012-06-12 In his 1959 address There is Plenty of Room at the Bottom Richard P Feynman speculated about manipulating materials atom by atom and challenged the technical community to find ways of manipulating and controlling things on a small scale This visionary challenge has now become a reality with recent advances enabling atomistic level tailoring and control of materials Exemplifying Feynman s vision Handbook of Nanoscience Engineering and Technology Third Edition continues to explore innovative nanoscience engineering and technology areas Along with updating all chapters this third edition extends the coverage of emerging nano areas even further Two entirely new sections on energy and biology cover nanomaterials for energy storage devices photovoltaics DNA devices and assembly digital microfluidic lab on a chip and much more This edition also includes new chapters on nanomagnet logic quantum transport at the nanoscale terahertz emission from Bloch oscillator systems molecular logic electronic optics in graphene and electromagnetic metamaterials With contributions from top scientists and researchers from around the globe this color handbook presents a unified up to date account of the most promising technologies and developments in the nano field It sets the stage for the next revolution of nanoscale manufacturing where scalable technologies are used to manufacture large numbers of devices with complex functionalities Quantum and Semi-classical Percolation and Breakdown in Disordered Solids Asok K. Sen,Kamal K. Bardhan,Bikas K. Chakrabarti,2009-03-20 This lecture notes in physics volume mainly focuses on the semi classical and qu tum aspects of percolation and breakdown in disordered composite or granular s tems The main reason for

this undertaking has been the fact that of late there have been a lot of theoretical work on quantum percolation but there is not even a single published review on the topic and of course no book. Also there are many theoretical and experimental studies on the nonlinear current voltage characteristics both away from as well as one approaches an electrical breakdown in composite materials. Some of the results are quite intriguing and may broadly be explained utilising a semi classical if not fully quantum mechanical tunnelling between micron or nano sized metallic islands dispersed separated by thin insulating layers or in other words between the dangling ends of small percolation clusters. There have also been several theoretical studies of Zener breakdown in Mott or Anderson insulators. Again there is no review available connecting them in any coherent fashion. A compendium volume connecting these experimental and theoretical studies should be unique and very timely and hence this volume. The book is organised as follows. For completeness we have started with a short and concise introduction on classical percolation. In the first chapter D Stauffer reviews the scaling theory of classical percolation emphasizing biased diffusion without any quantum effects. The next chapter by A K

Fundamentals and Properties of Multifunctional Nanomaterials Sabu Thomas, Nandakumar Kalarikkal, Ann Rose Abraham, 2021-08-25. Fundamentals and Properties of Multifunctional Nanomaterials outlines the properties of highly intricate nanosystems including liquid crystalline nanomaterials, magnetic nanosystems, ferroelectrics, nanomultiferroics, plasmonic nanosystems, carbon based nanomaterials, 1D and 2D nanomaterials and bio nanomaterials. This book reveals the electromagnetic interference shielding properties of nanocomposites. The fundamental attributes of the nanosystems leading to the multifunctional applications in diverse areas are further explored throughout this book. This book is a valuable reference source for researchers in materials science and engineering as well as in related disciplines such as chemistry and physics. Explains the concepts and fundamental applications of a variety of multifunctional nanomaterials. Introduces fundamental principles in the fields of magnetism and multiferroics. Addresses ferromagnetics, multiferroics and carbon nanomaterials.

Handbook of Nanophysics Klaus D. Sattler, 2010-09-17. Providing the framework for breakthroughs in nanotechnology, this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale. After discussing the theoretical principles and measurements of nanoscale systems, the organization of the set follows the historical development of nanoscience. Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results. State of the art scientific content is enriched with fundamental equations and illustrations, many in color.

Theory of Semiconductor Quantum Devices Fausto Rossi, 2011-01-13. Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials. The book will cover within a common language different types of optoelectronic nanodevices including quantum cascade laser sources and detectors, few electron exciton quantum devices and semiconductor based quantum logic gates. The distinguishing feature of

the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultrasmall space and time scales as well as of their semiclassical counterparts

Quantum Theory of Magnetism Robert M. White, 2007-01-23 Quantum Theory of Magnetism is the only book that deals with the phenomenon of magnetism from the point of view of linear response That is how does a magnetic material respond when excited by a magnetic field That field may be uniform or spatially varying static or time dependent Previous editions have dealt primarily with the magnetic response This edition incorporates the resistive response of magnetic materials as well It also includes problems to test the reader's or student's comprehension The rationale for a book on magnetism is as valid today as it was when the first two editions of Quantum Theory of Magnetism were published Magnetic phenomena continue to be discovered with deep scientific implications and novel applications Since the Second Edition for example Giant Magneto Resistance GMR was discovered and the new field of spintronics is currently expanding Not only do these phenomena rely on the concepts presented in this book but magnetic properties are often an important clue to our understanding of new materials e g high temperature superconductors Their magnetic properties studied by susceptibility measurements nuclear magnetic resonance neutron scattering etc have provided insight to the superconductivity state This updated edition offers revised emphasis on some material as a result of recent developments and includes new material such as an entire chapter on thin film magnetic multilayers Researchers and students once again have access to an up to date classic reference on magnetism the key characteristic of many modern materials

Introductory Nanoelectronics Vinod Kumar Khanna, 2020-07-21 This introductory text develops the reader's fundamental understanding of core principles and experimental aspects underlying the operation of nanoelectronic devices The author makes a thorough and systematic presentation of electron transport in quantum confined systems such as quantum dots quantum wires and quantum wells together with Landauer-Büttiker formalism and non equilibrium Green's function approach The coverage encompasses nanofabrication techniques and characterization tools followed by a comprehensive exposition of nanoelectronic devices including resonant tunneling diodes nanoscale MOSFETs carbon nanotube FETs high electron mobility transistors single electron transistors and heterostructure optoelectronic devices The writing throughout is simple and straightforward with clearly drawn illustrations and extensive self study exercises for each chapter Introduces the basic concepts underlying the operation of nanoelectronic devices Offers a broad overview of the field including state of the art developments Covers the relevant quantum and solid state physics and nanoelectronic device principles Written in lucid language with accessible mathematical treatment Includes extensive end of chapter exercises and many insightful diagrams

Progress in Nanoscale and Low-Dimensional Materials and Devices Hilmi Ünlü, Norman J. M. Horing, 2022-10-18 This book describes most recent progress in the properties synthesis characterization modelling and applications of nanomaterials and nanodevices It begins with the review of the modelling of the structural electronic and optical properties of low dimensional and nanoscale semiconductors methodology of synthesis

and characterization of quantum dots and nanowires with special attention towards Dirac materials whose electrical conduction and sensing properties far exceed those of silicon based materials making them strong competitors The contributed reviews presented in this book touch on broader issues associated with the environment as well as energy production and storage while highlighting important achievements in materials pertinent to the fields of biology and medicine exhibiting an outstanding confluence of basic physical science with vital human endeavor The subjects treated in this book are attractive to the broader readership of graduate and advanced undergraduate students in physics chemistry biology and medicine as well as in electrical chemical biological and mechanical engineering Seasoned researchers and experts from the semiconductor device industry also greatly benefit from the book s treatment of cutting edge application studies

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