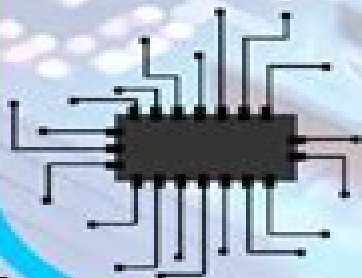


# Quantum transport in nanoscale systems

- Quantum transport in nanoscale systems explores how electrons move through materials at the atomic scale, where quantum effects become significant
- This movement is influenced by quantum mechanics, not classical laws, leading to unique properties like superconductivity
- The phenomena underpin revolutionary technologies, including quantum computing and nanoelectronics
- Understanding and harnessing quantum transport is vital for developing next-generation devices

## Practical example: Electronics

- Quantum transport in nanoscale systems is fundamental to modern electronics, impacting how devices operate at microscopic levels
- This phenomenon involves the behavior of electrons in materials that are only a few atoms in size
- Understanding quantum transport allows engineers to design more efficient, faster semiconductors used in everything from smartphones to computers
- As electronic components shrink, mastering quantum transport is key to pushing the boundaries of what our devices can do



# Theory Quantum Transport Nanoscale Introduction

**Elke Scheer, Juan Carlos Cuevas**



## **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 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 *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

**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

**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

*Tunneling Field Effect Transistor Technology* Lining Zhang,Mansun Chan,2016-04-09 This book provides a single source reference to the state of the art in

tunneling field effect transistors TFETs Readers will learn the TFETs physics from advanced atomistic simulations the TFETs fabrication process and the important roles that TFETs will play in enabling integrated circuit designs for power efficiency

*Quantum Transport in Nanostructures and Molecules* Colin John Lambert, 2021 This reference text presents a conceptual framework for understanding room temperature electron and phonon transport through molecules and other quantum objects The flow of electricity through molecules is explained at the boundary of physics and chemistry providing an authoritative introduction to molecular electronics for physicists and quantum transport for chemists Professor Lambert provides a pedagogical account of the fundamental concepts needed to understand quantum transport and thermoelectricity in molecular scale and nanoscale structures The material provides researchers and advanced students with an understanding of how quantum transport relates to other areas of materials modelling condensed matter and computational chemistry After reading the book the reader will be familiar with the basic concepts of molecular orbital theory and scattering theory which underpin current theories of quantum transport

**Nonequilibrium Quantum Transport Physics in Nanosystems** Felix A. Buot, 2009 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 Transport and Relaxation* Heinz-Peter Breuer, 2007 JJAP, 2005 **Quantum Transport in Ultrasmall Devices** David K. Ferry, 1995-07-31 The operation of semiconductor devices depends upon the use of electrical potential barriers such as gate depletion in controlling the carrier densities electrons and holes and their transport Although a successful device design is quite complicated and involves many aspects the device engineering is mostly to devise a best device design by defining optimal device structures and manipulating impurity profiles to obtain optimal control of the carrier flow through the device This becomes increasingly difficult as the device scale becomes smaller and smaller Since the introduction of integrated circuits the number of individual transistors on a single chip has doubled approximately every

three years As the number of devices has grown the critical dimension of the smallest feature such as a gate length which is related to the transport length defining the channel has consequently declined The reduction of this design rule proceeds approximately by a factor of 1.4 each generation which means we will be using 0.1015  $\mu\text{m}$  rules for the 4 Gb chips a decade from now If we continue this extrapolation current technology will require 30 nm design rules and a cell 3.2 size

**Japanese Journal of Applied Physics** ,2005      **Journal of the Physical Society of Japan** ,2017      **Proceedings of the ... IEEE Conference on Nanotechnology** ,2005      Materials Science & Engineering ,2007      **Nanoelectronics**  
Mircea Dragoman,Daniela Dragoman,2009 This revised edition provides a current unified treatment of the research technology and applications fueling the rapid growth of nanoelectronics It features numerous updates including expanded discussions on nanomaterials micro and nano cantilevers and spintronics      **International Conference on Simulation of Semiconductor Processes and Devices** ,2005      **Electron Transport in Single Molecule Transistors** Jiwoong Park,2003      Selected Papers on Nanotechnology--theory and Modeling Akhlesh Lakhtakia,2006 Presents a collection of papers focusing on the theory and modeling of nanoscale materials and structures This book provides an anthology of papers for the understanding of nanotechnological principles The topics covered include nanotubes quantum dots photonic crystals sculptured thin films spintronics nanomagnetism and nanobiotechnology

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