

Thomas Ihn

# Electronic Quantum Transport in Mesoscopic Semiconductor Structures



Springer

# Electronic Quantum Transport In Mesoscopic Semiconductor Structures

**Christian Schüller**



## **Electronic Quantum Transport In Mesoscopic Semiconductor Structures:**

*Electronic Quantum Transport in Mesoscopic Semiconductor Structures* Thomas Ihn, 2014-09-01      *Electronic Quantum Transport in Mesoscopic Semiconductor Structures* Thomas Ihn, 2004-01-08 Opening with a brief historical account of electron transport from Ohm's law through transport in semiconductor nanostructures this book discusses topics related to electronic quantum transport The book is written for graduate students and researchers in the field of mesoscopic semiconductors or in semiconductor nanostructures Highlights include review of the cryogenic scanning probe techniques applied to semiconductor nanostructures      Electronic Quantum Transport in Mesoscopic Semiconductors Structures Thomas Ihn, 2004      Quantum Transport in Semiconductor Submicron Structures B. Kramer, 2012-12-06 The articles in this book have been selected from the lectures of a NATO Advanced Study Institute held at Bad Lauterberg Germany in August 1995 Internationally well known researchers in the field of mesoscopic quantum physics provide insight into the fundamental physics underlying the mesoscopic transport phenomena in structured semiconductor inversion layers In addition some of the most recent achievements are reported in contributed papers The aim of the volume is not to give an overview over the field Instead emphasis is on interaction and correlation phenomena that turn out to be of increasing importance for the understanding of the phenomena in the quantum Hall regime and in the transport through quantum dots The present status of the quantum Hall experiments and theory is reviewed As a key example for non Fermi liquid behavior the Luttinger liquid is introduced including some of the most recent developments It is not only of importance for the fractional quantum Hall effect but also for the understanding of transport in quantum wires Furthermore the chaotic and the correlation aspects of the transport in quantum dot systems are described The status of the experimental work in the area of persistent currents in semiconductor systems is outlined The construction of one of the first single electron transistors is reported The theoretical approach to mesoscopic transport presently a most active area is treated and some aspects of time dependent transport phenomena are also discussed      **Infrared Ellipsometry on Semiconductor Layer Structures** Mathias Schubert, 2004-11-26 The study of semiconductor layer structures using infrared ellipsometry is a rapidly growing field within optical spectroscopy This book offers basic insights into the concepts of phonons plasmons and polaritons and the infrared dielectric function of semiconductors in layered structures It describes how strain composition and the state of the atomic order within complex layer structures of multinary alloys can be determined from an infrared ellipsometry examination Special emphasis is given to free charge carrier properties and magneto optical effects A broad range of experimental examples are described including multinary alloys of zincblende and wurtzite structure semiconductor materials and future applications such as organic layer structures and highly correlated electron systems are proposed      *Comprehensive Semiconductor Science and Technology*, 2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor

technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts

*Control of Magnetotransport in Quantum Billiards* Christian V. Morfonios, Peter Schmelcher, 2016-11-16 In this book the coherent quantum transport of electrons through two dimensional mesoscopic structures is explored in dependence of the interplay between the confining geometry and the impact of applied magnetic fields aiming at conductance controllability After a top down insightful presentation of the elements of mesoscopic devices and transport theory a computational technique which treats multiterminal structures of arbitrary geometry and topology is developed The method relies on the modular assembly of the electronic propagators of subsystems which are inter or intra connected providing large flexibility in system setups combined with high computational efficiency Conductance control is first demonstrated for elongated quantum billiards and arrays thereof where a weak magnetic field tunes the current by phase modulation of interfering lead coupled states geometrically separated from confined states Soft wall potentials are then employed for efficient and robust conductance switching by isolating energy persistent collimated or magnetically deflected electron paths from Fano resonances In a multiterminal configuration the guiding and focusing property of curved boundary sections enables magnetically controlled directional transport with input electron waves flowing exclusively to selected outputs Together with a comprehensive analysis of characteristic transport features and spatial distributions of scattering states the results demonstrate the geometrically assisted design of magnetoconductance control elements in the linear response regime

**Inelastic Light Scattering of Semiconductor Nanostructures** Christian Schüller, 2006-09-14 The field of semiconductor nanostructures is of enormous and still growing research interest On one hand they are already realized in mass products such as high electron mobility field effect transistors and quantum well lasers On the other hand they allow in specially tailored systems the investigation of fundamental properties such as many particle interactions of electrons in reduced dimensions This book

bridges the gap between general semiconductor textbooks and research articles      Quantum Tunneling in Complex Systems Joachim Ankerhold, 2007-02-15 In the last two decades remarkable progress has been made in understanding and describing tunneling processes in complex systems in terms of classical trajectories This book introduces recent concepts and achievements with particular emphasis on a dynamical formulation and relations to specific systems in mesoscopic molecular and atomic physics Advanced instanton techniques e g for decay rates and tunnel splittings are discussed in the first part The second part covers current developments for wave packet tunneling in real time and the third part describes thermodynamics and dynamical approaches for barrier transmission in statistical particularly dissipative systems      **Unconventional Superconductors** Gernot Goll, 2006 This book offers a comprehensive summary of experiments that are especially suited to reveal the order parameter symmetry of unconventional superconductors It briefly introduces readers to the basic theoretical concepts and terms of unconventional superconductivity followed by a detailed overview of experimental techniques and results investigating the superconducting energy gap and phase plus the pairing symmetry This review includes measurements of specific heat thermal conductivity penetration depth and nuclear magnetic resonance and muon spin rotation experiments Further point contact and tunnelling spectroscopy and Josephson experiments are addressed Current understanding is reviewed from the experimental point of view With an appendix offering five tables with almost 200 references that summarize the present results from ambient pressure heavy fermion and noncopper oxide superconductors the monograph provides a valuable resource for further studies in this field      **Compton Scattering** Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI The experiments cover a photon energy range from 30 MeV to 500 MeV The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results      *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      Heavy Quark Effective Theory Andrey G. Grozin, 2004-04-07 This up to date review also serves as an introduction to Heavy Quark Effective Theory HQET a new approach to heavy quark physics problems in Quantum Chromodynamics QCD The book also contains a detailed discussion of the methods of calculation used in HQET along with numerous illustrations      Theory of Light Hydrogenic Bound States Michael I. Eides, Howard Grotch, Valery A. Shelyuto, 2007-04-21 The book describes the modern theory of light hydrogen like systems The discussion is based on quantum electrodynamics Green's functions relativistic bound state

equations and Feynman diagrams are extensively used New theoretical approaches are described and explained The book contains derivation of many theoretical results obtained in recent years A complete set of all theoretical results for the energy levels of hydrogen like bound states is presented

**The Flow Equation Approach to Many-Particle Systems** Stefan Kehrein, 2007-01-09 Over the past decade the flow equation method has developed into a new versatile theoretical approach to quantum many body physics Its basic concept was conceived independently by Wegner <sup>1</sup> and by G lazek and Wilson <sup>2,3</sup> the derivation of a unitary flow that makes a many particle Hamiltonian increasingly energy diagonal This concept can be seen as a generalization of the conventional scaling approaches in many body physics where some ultraviolet energy scale is lowered down to the experimentally relevant low energy scale <sup>4</sup> The main difference between the conventional scaling approach and the flow equation approach can then be traced back to the fact that the flow equation approach retains all degrees of freedom i e the full Hilbert space while the conventional scaling approach focusses on some low energy subspace One useful feature of the flow equation approach is therefore that it allows the calculation of dynamical quantities on all energy scales in one unified framework Since its introduction a substantial body of work using the flow equation approach has accumulated It was used to study a number of very different quantum many body problems from dissipative quantum systems to correlated electron physics Recently it also became apparent that the flow equation approach is very suitable for studying quantum many body nonequilibrium problems which form one of the current frontiers of modern theoretical physics Therefore the time seems ready to compile the research literature on flow equations in a consistent and accessible way which was my goal in writing this book

Three-Dimensional X-Ray Diffraction Microscopy Henning Friis Poulsen, 2004-08-31 Three dimensional x ray diffraction 3DXRD microscopy is a novel experimental method for structural characterisation of polycrystalline materials The position morphology phase strain and crystallographic orientation of hundreds of grains or sub grain embedded within mm cm thick specimens can be determined simultaneously Furthermore the dynamics of the individual structural elements can be monitored during typical processes such as deformation or annealing The book gives a comprehensive account of the methodology followed by a summary of selected applications The method is presented from a mathematical crystallographic point of view but with sufficient hands on details to enable the reader to plan his or her own experiments The scope of applications includes work in materials science and engineering geophysics geology chemistry and pharmaceutical science

*Effective Field Theories in Flavour Physics* Thomas Mannel, 2004-11-26 The book constitutes a compact review of the applications of effective field theory methods in flavour physics with emphasis on heavy quark physics Some of the relevant applications are discussed to illustrate the method It covers the full range of theoretical tools related to the application of the effective field theory idea Starting from the weak interactions as an effective theory derived from the standard model well established methods such as heavy quark effective theory the heavy quark mass expansion and chiral perturbation theory are addressed Also more recent ideas such as QCD factorization and soft collinear effective theory are outlined Finally the

standard model itself is viewed as an effective theory allowing a model independent look at the results of the new physics The book should be useful for the advanced graduate student as well as for scientists who are interested in the theoretical toolkit used in the context of flavour physics It is not meant as a complete review of the subject rather it should be useful as an introduction to the basic ideas

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

*Electrical Resistivity of Thin Metal Films* Peter Wissmann, Hans-Ulrich Finzel, 2007-04-19 The intent of this book is to report on the electrical optical and structural properties of silver and gold films in dependence on substrate material annealing treatment and gas adsorption A main point is the calculation of the scattering cross section of the conduction electrons All results are substantiated by extended experimental data as well as numerous illustrations and tables

Parametric X-Ray Radiation in Crystals Vladimir G. Baryshevsky, Ilya D. Feranchuk, Alexander P. Ulyanenko, 2005-12-20 This systematic and comprehensive monograph is devoted to parametric X ray radiation PXR This radiation is generated by the motion of electrons inside a crystal whereby the emitted photons are diffracted by the crystal and the radiation intensity critically depends on the parameters of the crystal structure Nowadays PXR is the subject of numerous theoretical and experimental studies throughout the world The first part of the book is a theoretical treatment of PXR which includes a new approach to describe the radiation process in crystals The second part is a survey of PXR experimental results and the possible applications of PXR as a tool for crystal structure analysis and a source of tunable X ray radiation

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## **Table of Contents Electronic Quantum Transport In Mesoscopic Semiconductor Structures**

1. Understanding the eBook Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - The Rise of Digital Reading Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Advantages of eBooks Over Traditional Books
2. Identifying Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Personalized Recommendations
  - Electronic Quantum Transport In Mesoscopic Semiconductor Structures User Reviews and Ratings
  - Electronic Quantum Transport In Mesoscopic Semiconductor Structures and Bestseller Lists
5. Accessing Electronic Quantum Transport In Mesoscopic Semiconductor Structures Free and Paid eBooks
  - Electronic Quantum Transport In Mesoscopic Semiconductor Structures Public Domain eBooks
  - Electronic Quantum Transport In Mesoscopic Semiconductor Structures eBook Subscription Services
  - Electronic Quantum Transport In Mesoscopic Semiconductor Structures Budget-Friendly Options
6. Navigating Electronic Quantum Transport In Mesoscopic Semiconductor Structures eBook Formats



- ePub, PDF, MOBI, and More
- Electronic Quantum Transport In Mesoscopic Semiconductor Structures Compatibility with Devices
- Electronic Quantum Transport In Mesoscopic Semiconductor Structures Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Highlighting and Note-Taking Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Interactive Elements Electronic Quantum Transport In Mesoscopic Semiconductor Structures
- 8. Staying Engaged with Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electronic Quantum Transport In Mesoscopic Semiconductor Structures
- 9. Balancing eBooks and Physical Books Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electronic Quantum Transport In Mesoscopic Semiconductor Structures
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Setting Reading Goals Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Fact-Checking eBook Content of Electronic Quantum Transport In Mesoscopic Semiconductor Structures
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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