

Electronic Transport in Mesoscopic Systems

SUPRIYO DATTA

CAMBRIDGE STUDIES IN
SEMICONDUCTOR PHYSICS AND
MICROELECTRONIC ENGINEERING

Electronic Transport In Mesoscopic Systems

**Ernesto Antonio Medina Dagger, Anwar
Hasmy, Pedro José Colmenares**

Electronic Transport In Mesoscopic Systems:

Electronic Transport in Mesoscopic Systems Supriyo Datta, 1997-05-15 A thorough account of the theory of electronic transport in semiconductor nanostructures *Electronic Transport in Mesoscopic Systems* Supriyo Datta, 1997-05-15 Advances in semiconductor technology have made possible the fabrication of structures whose dimensions are much smaller than the mean free path of an electron This book gives a thorough account of the theory of electronic transport in such mesoscopic systems After an initial chapter covering fundamental concepts the transmission function formalism is presented and used to describe three key topics in mesoscopic physics the quantum Hall effect localisation and double barrier tunnelling Other sections include a discussion of optical analogies to mesoscopic phenomena and the book concludes with a description of the non equilibrium Green's function formalism and its relation to the transmission formalism Complete with problems and solutions the book will be of great interest to graduate students of mesoscopic physics and nanoelectronic device engineering as well as to established researchers in these fields **Electronic Transport in Mesoscopic Systems** Supriyo Datta, 2014-05-14 A thorough account of the theory of electronic transport in semiconductor nanostructures

Electronic Transport in Mesoscopic Systems Georgo Metalidis, 2007 [Electronic Transport in One-dimensional Mesoscopic Systems](#) Charis Quay Huei Li, 2007 Finally some measurements on nanotubes are presented *Coherent*

Electronic Transport in Time-periodic Mesoscopic Systems Guido Burmeister, 2000 **Mesoscopic Physics and Electronics** Tsuneya Ando, Yasuhiko Arakawa, Kazuhito Furuya, Susumu Komiyama, Hisao Nakashima, 2012-12-06 Semiconductor technology has developed considerably during the past several decades The exponential growth in microelectronic processing power has been achieved by a constant scaling down of integrated circuits Smaller feature sizes result in increased functional density faster speed and lower costs One key ingredient of the LSI technology is the development of the lithography and microfabrication The current minimum feature size is already as small as 0.2 μm beyond the limit imposed by the wavelength of visible light and rapidly approaching fundamental limits The next generation of devices is highly likely to show unexpected properties due to quantum effects and fluctuations The device which plays an important role in LSIs is MOSFETs metal oxide semiconductor field effect transistors In MOSFETs an inversion layer is formed at the interface of silicon and its insulating oxide The inversion layer provides a unique two dimensional 2D system in which the electron concentration is controlled almost freely over a very wide range Physics of such 2D systems was born in the mid 1960s together with the development of MOSFETs The integer quantum Hall effect was first discovered in this system **Quantum Transport in Mesoscopic Systems** Pier A. Mello, Narendra Kumar, 2004-05-20 The aim of this book is to present a statistical theory of wave scattering by complex systems systems which have a chaotic classical dynamics as in the case of microwave cavities and quantum dots or possess quenched randomness as in the case of disordered conductors with emphasis on mesoscopic fluctuations The universal character of the statistical behavior of these phenomena is

incorporated in a natural way by approaching the problem from a Maximum Entropy viewpoint Shannon's information entropy is maximized subject to the symmetries and constraints that are physically relevant within the powerful non perturbative Theory of Random Matrices This is a distinctive feature of the present book that greatly motivated our writing it Another reason is that it collects in one place the material and notions derived from the published work of the authors in collaboration with several co workers as well as from the work of others which are scattered through research journals and textbooks on the subject To make the book self contained we present in Chapters 2 and 3 the quantum theory of scattering set in the context of quasi one dimensional multichannel systems thus related directly to scattering problems in mesoscopic physics Chapter 4 discusses the linear response theory of quantum electronic transport adapted to the context of mesoscopic systems These chapters together with Chapter 5 on the Maximum Entropy Approach and Chapter 8 on weak localization have been written in a pedagogical style and can be used as part of a graduate course Chapters 6 and 7 discuss the problem of electronic transport through classically chaotic cavities and quasi one dimensional disordered systems There are many exercises most of them worked out in detail distributed throughout the book This should help graduate students their teachers and the research scholars interested generally in the subject of quantum transport through disordered and chaotic systems in their preparation for it and beyond

Introduction to Condensed Matter Physics Duan Feng, Guojun Jin, 2005 This is volume 1 of two volume book that presents an excellent comprehensive exposition of the multi faceted subjects of modern condensed matter physics unified within an original and coherent conceptual framework Traditional subjects such as band theory and lattice dynamics are tightly organized in this framework while many new developments emerge spontaneously from it In this volume Basic concepts are emphasized usually they are intuitively introduced then more precisely formulated and compared with correlated concepts A plethora of new topics such as quasicrystals photonic crystals GMR TMR CMR high T_c superconductors Bose Einstein condensation etc are presented with sharp physical insights Bond and band approaches are discussed in parallel breaking the barrier between physics and chemistry A highly accessible chapter is included on correlated electronic states rarely found in an introductory text Introductory chapters on tunneling mesoscopic phenomena and quantum confined nanostructures constitute a sound foundation for nanoscience and nanotechnology The text is profusely illustrated with about 500 figures

Handbook of Nanoscience, Engineering, and Technology William A. Goddard III, Donald Brenner, Sergey Edward Lyshevski, Gerald J Iafrate, 2007-05-03 The ability to study and manipulate matter at the nanoscale is the defining feature of 21st century science The first edition of the standard setting Handbook of Nanoscience Engineering and Technology saw the field through its infancy Reassembling the preeminent team of leading scientists and researchers from all areas of nanoscience and nanote *2nd Workshop of Electronic Transport in Mesoscopic Systems* Ernesto Antonio Medina Dagger, Anwar Hasmy, Pedro José Colmenares, 2001

Binding and Scattering in Two-Dimensional Systems J. Timothy Londergan, John P. Carini, David P.

Murdock,2003-07-01 have advances in of The last few seen our understanding revolutionary years heterostructures An amount the electronic of enormous properties quantum undertaken both the and the theoretical of research has been on experimental in nanostructures The field vast of electronic now covers a aspects transport and extensive number of review of an books articles spectrum topics papers and conference continue to be in this area published Complete proceedings of this and field is the of this book beyond exciting evolving scope coverage We refer the interested reader to of the excellent and some comprehensive books and conference on this proceedings subject Much has been made in our of confined understanding quantum progress A s is well it is to construct heterostruc known possible quantum systems tures which well as one dimensional are approximated quasi two dimensional zero dimensional Our interest here is in the of or properties particles systems We brief andfields in two dimensional a intro quasi 2 D systems provide duction to the of 2 D in to motion in 2 D systems particular systems physics the confined within finite For we will assume that a area simplicity generally Such confined is defined an infinite hard wall a by potential system boundary We will 2 D will be referred to as a or as a wire

Quantum-based Electronic Devices And Systems, Selected Topics In Electronics And Systems, Vol 14 Mitra Dutta,1998-10-23 This volume includes highlights of the theories and experimental findings that underlie essential phenomena occurring in quantum based devices and systems as well as the principles of operation of selected novel quantum based electronic devices and systems A number of the emerging approaches to creating new types of quantum based electronic devices and systems are also discussed

Electronic and Optoelectronic Properties of Semiconductor Structures Jasprit Singh,2007-03-26 A graduate textbook presenting the underlying physics behind devices that drive today s technologies The book covers important details of structural properties bandstructure transport optical and magnetic properties of semiconductor structures Effects of low dimensional physics and strain two important driving forces in modern device technology are also discussed In addition to conventional semiconductor physics the book discusses self assembled structures mesoscopic structures and the developing field of spintronics The book utilizes carefully chosen solved examples to convey important concepts and has over 250 figures and 200 homework exercises Real world applications are highlighted throughout the book stressing the links between physical principles and actual devices Electronic and Optoelectronic Properties of Semiconductor Structures provides engineering and physics students and practitioners with complete and coherent coverage of key modern semiconductor concepts A solutions manual and set of viewgraphs for use in lectures are available for instructors from solutions cambridge org

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.

Introducing Molecular Electronics

Gianaurelio Cuniberti, Giorgos Fagas, Klaus Richter, 2006-05-21. Klaus von Klitzing, Max Planck Institut für Festkörperforschung, Heisenbergstraße 1, 70569 Stuttgart, Germany. Already many Cassandras have prematurely announced the end of the silicon roadmap and yet conventional semiconductor based transistors have been continuously shrinking at a pace which has brought us to nowadays cheap and powerful microelectronics. However it is clear that the traditional scaling laws cannot be applied if unwanted tunnel phenomena or ballistic transport dominate the device properties. It is generally expected that a combination of silicon CMOS devices with molecular structure will dominate the field of nanoelectronics in 20 years. The visionary ideas of atomic or molecular scale electronics already date back thirty years but only recently advanced nanotechnology including e.g. scanning tunneling methods and mechanically controllable break junctions have enabled to make distinct progress in this direction. On the level of fundamental research state-of-the-art techniques allow to manipulate image and probe charge transport through single molecular systems in an increasingly controlled way. Hence molecular electronics is reaching a stage of trustable and reproducible experiments. This has led to a variety of physical and chemical phenomena recently observed for charge currents flowing through molecular junctions posing new challenges to theory. As a result a still increasing number of open questions determines the future agenda in this field.

Artificial Intelligence and Security

Xingming Sun, Xiaorui Zhang, Zhihua Xia, Elisa Bertino, 2021-07-09. This two volume set of LNCS 12736, 12737 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security (ICAIS 2021) which was held in Dublin, Ireland in July 2021. The conference was formerly called International Conference on Cloud Computing and Security with the acronym ICCCS. The total of 93 full papers and 29 short papers presented in this two volume proceedings was carefully reviewed and selected from 1013 submissions. Overall a total of 224 full and 81 short papers were accepted for ICAIS 2021; the other accepted papers are presented in CCIS 1422, 1424. The papers were organized in topical sections as follows: Part I: Artificial intelligence and big data; Part II: Big data, cloud computing and security, encryption and cybersecurity information.

hiding IoT security and multimedia forensics

Interacting Electrons in Nanostructures Rolf Haug, Herbert

Schoeller, 2008-01-11 The exciting field of nanostructured materials offers many challenging perspectives for fundamental research and technological applications The combination of quantum mechanics interaction phase coherence and magnetism are important for understanding many physical phenomena in these systems This book provides an overview of many aspects of interacting electrons in nanostructures including such interesting topics as quantum dots quantum wires molecular electronics dephasing spintronics and nanomechanics The content reflects the current research in this area and is written by leading experts in the field

Physics of Zero- and One-Dimensional Nanoscopic Systems Sachindra Nath

Karmakar, Santanu Kumar Maiti, Chowdhury Jayeeta, 2007-09-04 In recent years submicron and nanoscale systems have featured strongly on the research agenda due to the technological progress and new physics that have emerged from studies of ultra small systems A fundamental understanding of basic physical phenomena on the mesoscopic and nanoscopic scales is required to exploit the technological potential offered by these exotic materials The present book contains review like chapters by some of the leading experts in the field covering topics such as the Kondo effect electron transport disorder and quantum coherence with electron electron interaction persistent current thermoelectric phenomena etc in quantum dots quantum wires carbon nanotubes and more This book will be valuable to researchers and students in condensed matter physics

Collective Electronic Excitations in Solids and Quantum Transport in Mesoscopic Systems Xiaoju Wu, 1996

Electronic Transport In Mesoscopic Systems Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Electronic Transport In Mesoscopic Systems**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Electronic Transport In Mesoscopic Systems Introduction

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