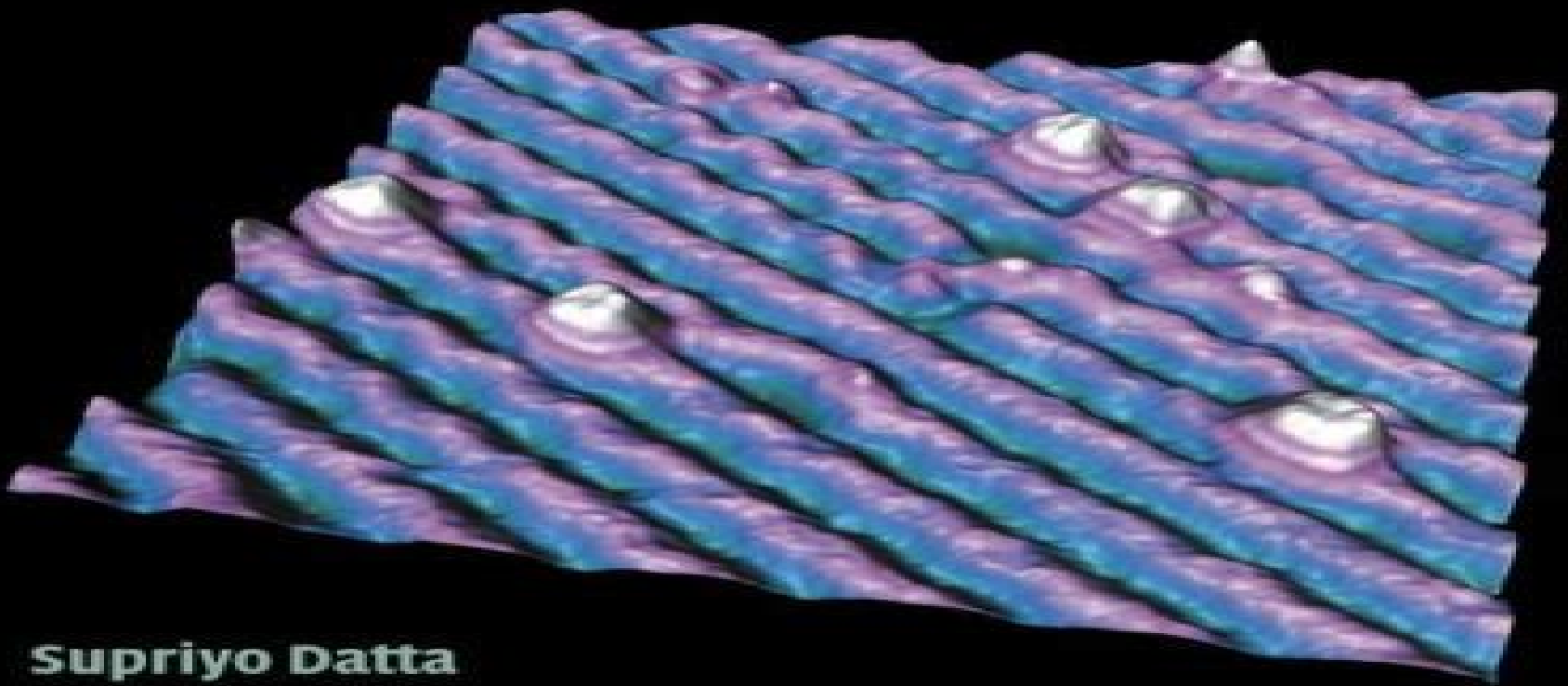


Quantum Transport

Atom to Transistor



Supriyo Datta

Quantum Transport Supriyo Datta

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Quantum Transport Supriyo Datta:

Quantum Transport Supriyo Datta, 2005-06-16 This book presents the conceptual framework underlying the atomistic theory of matter emphasizing those aspects that relate to current flow This includes some of the most advanced concepts of non equilibrium quantum statistical mechanics No prior acquaintance with quantum mechanics is assumed Chapter 1 provides a description of quantum transport in elementary terms accessible to a beginner The book then works its way from hydrogen to nanostructures with extensive coverage of current flow The final chapter summarizes the equations for quantum transport with illustrative examples showing how conductors evolve from the atomic to the ohmic regime as they get larger Many numerical examples are used to provide concrete illustrations and the corresponding Matlab codes can be downloaded from the web Videostreamed lectures keyed to specific sections of the book are also available through the web This book is primarily aimed at senior and graduate students

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Lessons From Nanoelectronics: A New Perspective On Transport (Second Edition) - Part B: Quantum Transport Supriyo Datta, 2018-03-23 Everyone is familiar with the amazing performance of a modern smartphone powered by a billion plus nanotransistors each having an active region that is barely a few hundred atoms long The same amazing technology has also led to a deeper understanding of the nature of current flow and heat dissipation on an atomic scale which is of broad relevance to the general problems of non equilibrium statistical mechanics that pervade many different fields This book is based on a set of two online courses originally offered in 2012 on nanoHUB U and more recently in 2015 on edX In preparing the second edition the author decided to split it into parts A and B titled Basic Concepts and Quantum Transport respectively along the lines of the two courses A list of available video lectures corresponding to different sections of this volume is provided upfront To make these lectures accessible to anyone in any branch of science or engineering the author assume very little background beyond linear algebra and differential equations However the author will be discussing advanced concepts that should be of interest even to specialists who are encouraged to look at his earlier books for additional technical details

[An Introduction to Quantum Transport in Semiconductors](#) David K. Ferry, 2017-12-14 Throughout their college career most engineering students have done problems and studies that are basically situated in the classical world Some may have taken quantum mechanics as their chosen field of study This book moves beyond the basics to highlight the full quantum mechanical nature of the transport of carriers through nanoelectronic structures The book is unique in that addresses quantum transport only in the materials that are of

interest to microelectronics semiconductors with their variable densities and effective masses The author develops Green's functions starting from equilibrium Green's functions and going through modern time dependent approaches to non equilibrium Green's functions introduces relativistic bands for graphene and topological insulators and discusses the quantum transport changes that these bands induce and discusses applications such as weak localization and phase breaking processes resonant tunneling diodes single electron tunneling and entanglement Furthermore he also explains modern ensemble Monte Carlo approaches to simulation of various approaches to quantum transport and the hydrodynamic approaches to quantum transport All in all the book describes all approaches to quantum transport in semiconductors thus becoming an essential textbook for advanced graduate students in electrical engineering or physics **Electronic**

Transport in Mesoscopic Systems Supriyo Datta,1997-05-15 A thorough account of the theory of electronic transport in semiconductor nanostructures Lessons From Nanoelectronics: A New Perspective On Transport Supriyo

Datta,2012-06-29 Everyone is familiar with the amazing performance of a modern smartphone powered by a billion plus nanotransistors each having an active region that is barely a few hundred atoms in length These lecture notes are about a less appreciated by product of the microelectronics revolution namely the deeper understanding of current flow and device operation that it has enabled which forms the basis for a new approach to transport problems The book assumes very little background beyond linear algebra and differential equations and is intended to be accessible to anyone in any branch of science or engineering *Nanocomputing* Jang-Yu Hsu,2017-03-03 This book provides a comprehensive overview of the

computational physics for nanoscience and nanotechnology Based on MATLAB and the C distributed computing paradigm the book gives instructive explanations of the underlying physics for mesoscopic systems with many listed programs that readily compute physical properties into nanoscales Many generated graphical pictures demonstrate not only the principles of physics but also the methodology of computing **Oxford Handbook of Nanoscience and Technology** A. V. Narlikar,Y.Y.

Fu,2010-02-11 These three volumes are intended to shape the field of nanoscience and technology and will serve as an essential point of reference for cutting edge research in the field Computational Electronics Karl Hess,J.P. Leburton,U. Ravaioli,2013-03-14 Large computational resources are of ever increasing importance for the simulation of semiconductor processes devices and integrated circuits The Workshop on Computational Electronics was intended to be a forum for the discussion of the state of the art of device simulation Three major research areas were covered conventional simulations based on the drift diffusion and the hydrodynamic models Monte Carlo methods and other techniques for the solution of the Boltzmann transport equation and computational approaches to quantum transport which are relevant to novel devices based on quantum interference and resonant tunneling phenomena Our goal was to bring together researchers from various disciplines that contribute to the advancement of device simulation These include Computer Science Electrical Engineering Applied Physics and Applied Mathematics The success of this multidisciplinary formula was proven by numerous interactions

which took place at the Workshop and during the following three day Short Course on Computational Electronics The format of the course including a number of tutorial lectures and the large attendance of graduate students stimulated many discussions and has proven to us once more the importance of cross fertilization between the different disciplines

Nanoelectronics: A Molecular View Avik Ghosh, 2016-09-29 This is one of the best available graduate level textbooks on electronic transport at the nanoscale Its unique feature is providing a thorough and completely self contained treatment of several theoretical formalisms for treating the transport problem As such the book is useful not only for the graduate students working in the field of nanoscale electrical transport but also for the researchers who wish to expand their knowledge of various fundamental issues associated with this rapidly developing field Of particular note are deep physical insights accompanying the rigorous mathematical derivations in each of the chapters as well as the clear statement of all the approximations involved in a particular theoretical formalism This winning combination makes the book very accessible to a reader with basic knowledge of quantum mechanics solid state theory and thermodynamics statistical mechanics I give this book the highest recommendation Read Full Review Serfei A Egorov University of Virginia USA This book is aimed at senior undergraduates graduate students and researchers interested in quantitative understanding and modeling of nanomaterial and device physics With the rapid slow down of semiconductor scaling that drove information technology for decades there is a pressing need to understand and model electron flow at its fundamental molecular limits The purpose of this book is to enable such a deconstruction needed to design the next generation memory logic sensor and communication elements Through numerous case studies and topical examples relating to emerging technology this book connects top down classical device physics taught in electrical engineering classes with bottom up quantum and many body transport physics taught in physics and chemistry The book assumes no more than a nodding acquaintance with quantum mechanics in addition to knowledge of freshman level mathematics Segments of this book are useful as a textbook for a course in nano electronics

Near-equilibrium Transport: Fundamentals And Applications Mark S Lundstrom, Changwook Jeong, 2012-11-29 These lectures are designed to introduce students to the fundamentals of carrier transport in nano devices using a novel bottom up approach that agrees with traditional methods when devices are large but which also works for nano devices The goal is to help students learn how to think about carrier transport at the nanoscale and also how the bottom up approach provides a new perspective to traditional concepts like mobility and drift diffusion equations The lectures are designed for engineers and scientists and others who need a working knowledge of near equilibrium low field or linear transport Applications of the theory and measurement considerations are also addressed The lectures serve as a starting point to an extensive set of instructional materials available online

Lessons from Nanoelectronics Supriyo Datta, 2017 Everyone is familiar with the amazing performance of a modern smartphone powered by a billion plus nanotransistors each having an active region that is barely a few hundred atoms long The same amazing technology has also led to a deeper understanding

of the nature of current flow and heat dissipation on an atomic scale which is of broad relevance to the general problems of non equilibrium statistical mechanics that pervade many different fields This book is based on a set of two online courses originally offered in 2012 on nanoHUB U and more recently in 2015 on edX In preparing the second edition the author decided to split it into parts A and B titled Basic Concepts and Quantum Transport respectively along the lines of the two courses A list of available video lectures corresponding to different sections of this volume is provided upfront To make these lectures accessible to anyone in any branch of science or engineering the author assume very little background beyond linear algebra and differential equations However the author will be discussing advanced concepts that should be of interest even to specialists who are encouraged to look at his earlier books for additional technical details

Nanoscale Materials and Devices for Electronics, Photonics and Solar Energy Anatoli Korkin, Stephen Goodnick, Robert Nemanich, 2015-08-26

This book presents research dedicated to solving scientific and technological problems in many areas of electronics photonics and renewable energy Progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs energy and material consumption The latest generation of electronic devices is now approaching nanometer scale dimensions new materials are being introduced into electronics manufacturing at an unprecedented rate and alternative technologies to mainstream CMOS are evolving The low cost of natural energy sources have created economic barriers to the development of alternative and more efficient solar energy systems fuel cells and batteries Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies Nanoscale Materials and Devices for Electronics Photonics and Solar Energy features chapters that cover the following areas atomic scale materials design bio and molecular electronics high frequency electronics fabrication of nanodevices magnetic materials and spintronics materials and processes for integrated and subwave optoelectronics nanoCMOS new materials for FETs and other devices nanoelectronics system architecture nano optics and lasers non silicon materials and devices chemical and biosensors quantum effects in devices nano science and technology applications in the development of novel solar energy devices and fuel cells and batteries

Lessons From Nanoelectronics: A New Perspective On Transport (Second Edition) - Part A: Basic Concepts Supriyo Datta, 2017-03-20

Everyone is familiar with the amazing performance of a modern smartphone powered by a billion plus nanotransistors each having an active region that is barely a few hundred atoms long The same amazing technology has also led to a deeper understanding of the nature of current flow and heat dissipation on an atomic scale which is of broad relevance to the general problems of non equilibrium statistical mechanics that pervade many different fields This book is based on a set of two online courses originally offered in 2012 on nanoHUB U and more recently in 2015 on edX In preparing the second edition the author decided to split it into parts A and B titled Basic Concepts and Quantum Transport respectively along the lines of the two courses A list of available video lectures corresponding to different sections of this volume is provided upfront To make these lectures accessible to anyone in

any branch of science or engineering the author assume very little background beyond linear algebra and differential equations However the author will be discussing advanced concepts that should be of interest even to specialists who are encouraged to look at his earlier books for additional technical details **Lessons from Nanoelectronics** Supriyo Datta,2017 A Basic concepts Why electrons flow The elastic resistor Ballistic and diffusive transport Conductance from fluctuation Energy band model The nanotransistor Diffusion equation for ballistic transport Boltzmann equation Electrochemical potentials and quasi Fermi levels Hall effect Smart contacts Thermoelectricity Phonon transport Second law Fuel value of information *Handbook of Research on Methodologies and Applications of Supercomputing* Milutinovi?, Veljko,Kotlar, Miloš,2021-02-19 As computers continue to remain essential tools for the pursuit of physics medicine economics social sciences and more supercomputers are proving that they can further extend and greatly enhance as of yet undiscovered knowledge and solve the world s most complex problems As these instruments continue to lead to groundbreaking discoveries and breakthroughs it is imperative that research remains up to date with the latest findings and uses The Handbook of Research on Methodologies and Applications of Supercomputing is a comprehensive and critical reference book that provides research on the latest advances of control flow and dataflow supercomputing and highlights selected emerging big data applications needing high acceleration and or low power Consequently this book advocates the need for hybrid computing where the control flow part represents the host architecture and dataflow part represents the acceleration architecture These issues cover the initial eight chapters The remaining eight chapters cover selected modern applications that are best implemented on a hybrid computer in which the transactional parts serial code are implemented on the control flow part and the loops parallel code on the dataflow part These final eight chapters cover two major application domains scientific computing and computing for digital economy This book offers applications in marketing medicine energy systems and library science among others and is an essential source for scientists programmers engineers practitioners researchers academicians and students interested in the latest findings and advancements in supercomputing

Nanostructure Physics and Fabrication Mark A. Reed,Wiley P. Kirk,2012-12-02 Nanostructure Physics and Fabrication contains the contributions of an interdisciplinary group of specialists in nanometer scale fabrication physics of mesoscopic systems electronic transport and materials science brought together to discuss the current status of nanometer scale electronic structures These articles provide the most current assessment of this active and growing area of interest The introductory chapter provides comments and background material for those somewhat unfamiliar with this new area of research and serves as a condensed overview and summary of the contributions that follow Most current assessment of the field Articles by experts in the field Results presented here will impact the future of microelectronics **Quantum Transport with Dissipation** Supriyo Datta,Michael J. McLennan,Purdue University. School of Electrical Engineering,1988 Fundamentals Of Nanotransistors Mark S Lundstrom,2017-07-11 The transistor is the key enabler of modern electronics

Progress in transistor scaling has pushed channel lengths to the nanometer regime where traditional approaches to device physics are less and less suitable. These lectures describe a way of understanding MOSFETs and other transistors that is much more suitable than traditional approaches when the critical dimensions are measured in nanometers. It uses a novel bottom up approach that agrees with traditional methods when devices are large but that also works for nano devices. Surprisingly the final result looks much like the traditional textbook transistor models but the parameters in the equations have simple clear interpretations at the nanoscale. The objective is to provide readers with an understanding of the essential physics of nanoscale transistors as well as some of the practical technological considerations and fundamental limits. This book is written in a way that is broadly accessible to students with only a very basic knowledge of semiconductor physics and electronic circuits.

Nanoscale Transistors Mark Lundstrom, Jing Guo, 2006-06-18

Silicon technology continues to progress but device scaling is rapidly taking the metal oxide semiconductor field effect transistor MOSFET to its limit. When MOS technology was developed in the 1960s channel lengths were about 10 micrometers but researchers are now building transistors with channel lengths of less than 10 nanometers. New kinds of transistors and other devices are also being explored. Nanoscale MOSFET engineering continues however to be dominated by concepts and approaches originally developed to treat microscale devices. To push MOSFETs to their limits and to explore devices that may complement or even supplant them a clear understanding of device physics at the nano molecular scale will be essential. Our objective is to provide engineers and scientists with that understanding not only of nano devices but also of the considerations that ultimately determine system performance. It is likely that nanoelectronics will involve much more than making smaller and different transistors but nanoscale transistors provides a specific clear context in which to address some broad issues and is therefore our focus in this monograph.

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