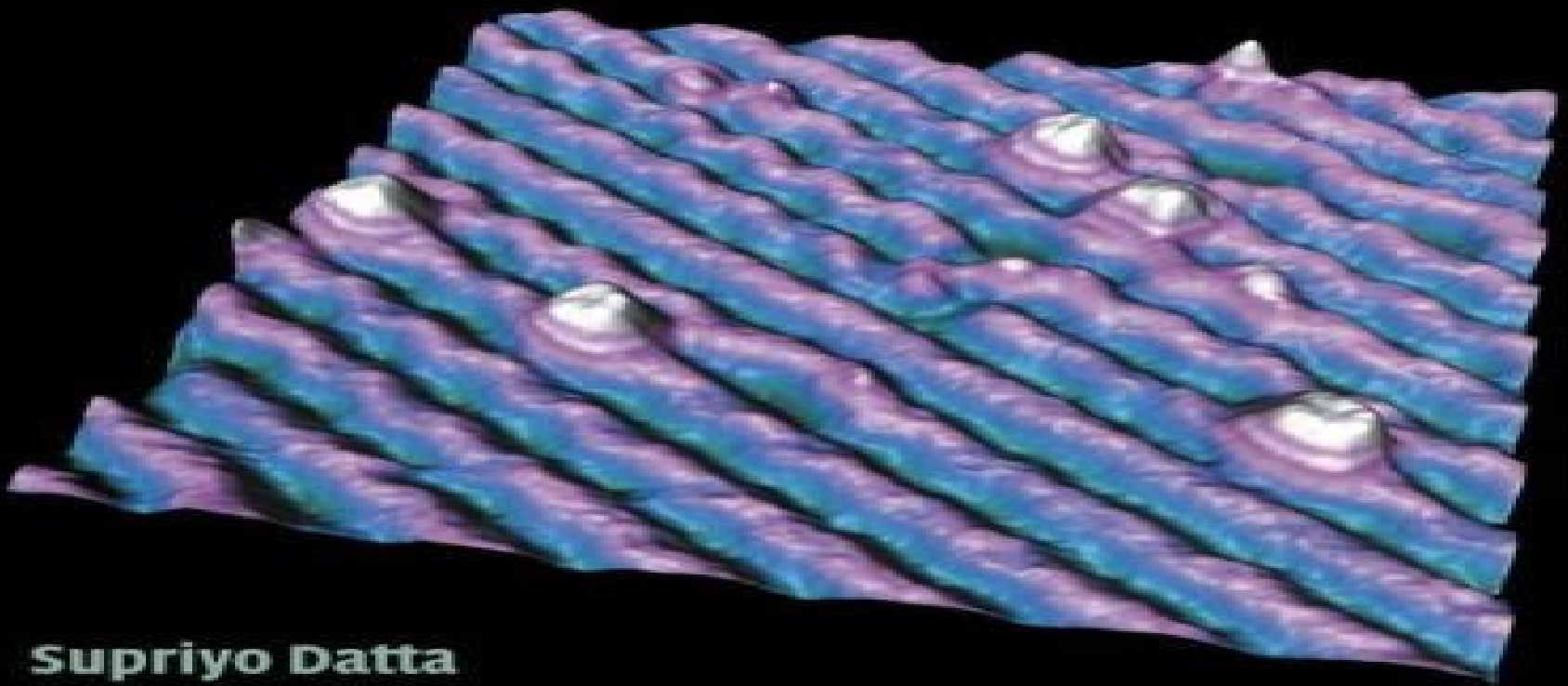


Quantum Transport

Atom to Transistor



Supriyo Datta

Quantum Transport Supriyo Datta

Mark S Lundstrom, Changwook Jeong



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

Quantum Transport Supriyo Datta, 2005-06-16 This book presents the conceptual framework underlying the atomistic theory of matter emphasizing those 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 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 Written for senior and graduate students

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 (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

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

Sensors, Circuits, and Systems for Scientific Instruments

Soumyajit Mandal,2024-12-05 Sensors Circuits and Systems for Scientific Instruments A Unified Approach presents a unified treatment of modern measurement systems by integrating relevant knowledge in sensors circuits signal processing and machine learning It also presents detailed case studies of several real life measurement systems to illustrate how theoretical analysis and high level designs are translated into working scientific instruments The book is meant for upper level undergraduate and beginning graduate students in electrical and computer engineering applied physics and biomedical engineering It is designed to fill a gap in the market between books focused on specific components of measurement systems semiconductor devices analog circuits digital signal processing etc and books that provide a high level survey or handbook type overview of a wide range of sensors and measurement systems Develops a unified treatment of modern scientific instruments by combining knowledge of high performance sensors semiconductor devices circuits signal processing and embedded computing Focuses on fundamental concepts in precision sensing and interface circuitry accuracy precision linearity noise etc and their impact on system level performance instead of presenting a laundry list of sensor types Introduces readers to the indispensable role of signal detection theory pattern recognition and machine learning for modern scientific instrumentation Presents multiple case studies and examples to demonstrate how theoretical concepts are translated into real life measurement systems

Nano-Net Alexandre Schmid, Sanjay Goel, Wei Wang, Valeriu Beiu, Sandro Carrara, 2009-10-06 This book constitutes the proceedings of the 4th International Conference on Nano Networks Nano Net 2009 held in Lucerne Switzerland in October 2009 The 36 invited and regular papers address the whole spectrum of Nano Networks and spans topics like modeling simulation standards architectural aspects novel information and graph theory aspects device physics and interconnects nanorobotics as well as nano biological systems The volume also contains the workshop on Nano Bio Sensing Paradigms as well as the workshop on Brain Inspired Interconnects and Circuits

Fundamentals Of Electronic Materials And Devices: A Gentle Introduction To The Quantum-classical World Avik Ghosh, 2023-02-02 The Romans built enduring bridges well before Newton came along armed simply with a working knowledge of mechanics and materials In contrast today's bridge building is an elaborate enterprise involving CAD tools composite materials and acoustic imaging When technology is pushed to its limits a working knowledge proves inadequate and an in depth understanding of core physical principles both macroscopic and microscopic top down vs bottom up becomes essential We find ourselves today at a similar crossroad in semiconductor device technology where a working knowledge of

solid state electronics is no longer enough Faced with the prohibitive cost of computing and the slowdown of chip manufacturing device scaling and the global supply chain the semiconductor industry is forced to explore alternate platforms such as 2 D materials spintronics analog processing and quantum engineering This book combines top down classical device physics with bottom up quantum transport in a single venue to provide the basis for such a scientific exploration It is essential easy reading for beginning undergraduate and practicing graduate students physicists unfamiliar with device engineering and engineers untrained in quantum physics With just a modest pre requisite of freshman maths the book works quickly through key concepts in quantum physics Matlab exercises and original homeworks to cover a wide range of topics from chemical bonding to Hofstadter butterflies domain walls to Chern insulators solar cells to photodiodes FinFETs to Majorana fermions For the practicing device engineer it provides new concepts such as the quantum of resistance while for the practicing quantum physicist it provides new contexts such as the tunnel transistor

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

Quantum Tunneling and Field Electron Emission Theories Shi-Dong Liang, 2014 Quantum tunneling is an essential issue in quantum physics Especially the rapid development of nanotechnology in recent years promises a lot of applications in condensed matter physics surface science and nanodevices which are growing interests in fundamental issues computational

techniques and potential applications of quantum tunneling The book involves two relevant topics One is quantum tunneling theory in condensed matter physics including the basic concepts and methods especially for recent developments in mesoscopic physics and computational formulation The second part is the field electron emission theory which covers the basic field emission concepts the Fowler Nordheim theory and recent developments of the field emission theory especially in some fundamental concepts and computational formulation such as quantum confinement effects Dirac fermion Luttinger liquid carbon nanotubes coherent emission current quantum tunneling time problem spin polarized field electron emission and non equilibrium Green s function method for field electron emission This book presents in both academic and pedagogical styles and is as possible as self complete to make it suitable for researchers and graduate students in condensed matter physics and vacuum nanoelectronics Contents Introduction Quantum Tunneling Theory Quantum Physics and Quantum Formalism Basic Physics of Quantum Scattering and Tunneling Wave Function Matching Method WKB Method Lippmann Schwinger Formalism Non Equilibrium Green s Function Method Spin Tunneling Applications Field Electron Emission Theory Introduction Theoretical Model and Methodology Fowler Nordheim Theory Field Emission from Semiconductors Surface Effects and Resonance Thermionic Emission Theory Theory of Dynamical Field Emission Theory of Spin Polarized Field Emission Theory of Field Electron Emission from Nanomaterials Computer Simulations of Field Emission The Empirical Theory of Field Emission Fundamental Physics of Field Electron Emission Readership Graduate students and researchers in vacuum nanoelectronics and physics

Applied Thermal Measurements At The Nanoscale: A Beginner's Guide To Electrothermal Methods Zhen Chen, Chris Dames, 2018-07-13 This book aims to serve as a practical guide for novices to design and conduct measurements of thermal properties at the nanoscale using electrothermal techniques An outgrowth of the authors tutorials for new graduate students in their own labs it includes practical details on measurement design and selection sensitivity and uncertainty analysis and pitfalls and verifications The information is particularly helpful for someone setting up their own experiment for the first time The book emphasizes the integration of thermal analysis with practical experimental considerations in order to design an experiment for best sensitivity and to configure the laboratory instruments accordingly The focus is on the measurements of thermal conductivity though thermal diffusivity and thermal boundary resistance thermal contact resistance are also briefly covered and many of the principles can be generalized to other challenging thermal measurements The reader is only expected to have the basic familiarity with electrical instruments typical of a university graduate in science or engineering and an acquaintance with the elementary laws of heat transfer by conduction convection and radiation

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

Lessons from Nanoelectronics: a New Perspective on Transport (Second Edition) - Part B: Quantum Transport 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 assumes 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

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

Nanoelectronic Materials Loutfy H. Madkour, 2019-06-27 This book presents synthesis techniques for the preparation of low dimensional nanomaterials including 0D quantum dots 1D nanowires nanotubes and 2D thin films few layers as well as their potential applications in nanoelectronic systems It focuses on the size effects involved in the transition from bulk materials to nanomaterials the electronic properties of nanoscale devices and different classes of nanomaterials from microelectronics to nanoelectronics to

molecular electronics Furthermore it demonstrates the structural stability physical chemical magnetic optical electrical thermal electronic and mechanical properties of the nanomaterials Subsequent chapters address their characterization fabrication techniques from lab scale to mass production and functionality In turn the book considers the environmental impact of nanotechnology and novel applications in the mechanical industries energy harvesting clean energy manufacturing materials electronics transistors health and medical therapy In closing it addresses the combination of biological systems with nanoelectronics and highlights examples of nanoelectronic cell interfaces and other advanced medical applications The book answers the following questions What is different at the nanoscale What is new about nanoscience What are nanomaterials NMs What are the fundamental issues in nanomaterials Where are nanomaterials found What nanomaterials exist in nature What is the importance of NMs in our lives Why so much interest in nanomaterials What is at nanoscale in nanomaterials What is graphene Are pure low dimensional systems interesting and worth pursuing Are nanotechnology products currently available What are sensors How can Artificial Intelligence AI and nanotechnology work together What are the recent advances in nanoelectronic materials What are the latest applications of NMs

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 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

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

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

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