

# The Physics Of Nanoelectronics Transport And Fluctuation Phenomena At Low Temperatures Oxford Master Series In Physics

The Physics of Nanoelectronics  
Nanoelectronics: A Molecular View  
Introduction to the Physics of Nanoelectronics  
2D Nanoelectronics  
Introduction to the Physics of Nanoelectronics  
Nanoelectronics: Physics, Materials and Devices  
Introduction to Nanoelectronic Single-Electron Circuit Design  
Nanoelectronics and Photonics  
Introduction to Nanoelectronics  
Advanced Nanoelectronics  
Quantum Nanoelectronics  
Lessons From Nanoelectronics: A New Perspective On Transport (Second Edition) - Part B: Quantum Transport  
Handbook of Nanophysics  
Nanoelectronics  
Lessons From Nanoelectronics: A New Perspective On Transport (Second Edition) - Part A: Basic Concepts  
Lessons From Nanoelectronics: A New Perspective On Transport  
Microelectronics to Nanoelectronics  
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this book provides an introduction to phenomena and models in nanoelectronics it starts from the basics but also introduces topics of recent interest such as superconducting qubits graphene and quantum nanoelectromechanics

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 egorovuniveristy of virginia usathis 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

this book provides an introduction to the physics of nanoelectronics with a focus on the theoretical aspects of nanoscale devices the book begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics to facilitate the understanding of subsequent chapters it goes on to encompass quantum electronics spintronics hall effects carbon and graphene electronics and topological physics in nanoscale devices theoretical methodology is developed using quantum mechanical and non equilibrium green s function negf techniques to calculate electronic currents and elucidate their transport properties at the atomic scale the spin hall effect is explained and its application to the emerging field of spintronics where an electron s spin as well as its charge is utilised is discussed topological dynamics and gauge potential are introduced with the relevant mathematics and their application in nanoelectronic systems is explained graphene one of the most promising carbon based nanostructures for nanoelectronics is also explored begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics encompasses quantum electronics spintronics hall effects carbon and graphene electronics and topological physics in nanoscale devices comprehensively introduces topological dynamics and gauge potential with the relevant mathematics and extensively discusses their application in nanoelectronic systems

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approx 528 pagesapprox 528 pages

today the concepts of single electron tunneling set are used to understand and model single atom and single molecule nanoelectronics the characteristics of nanoelectronic devices especially set transistors can be understood on the basis of the physics of nanoelectronic devices and circuit models a circuit theory approach is necessary for considering possible integration with current microelectronic circuitry to explain the properties and possibilities of set devices this book follows an approach to modeling these devices using electronic circuit theory all models and equivalent circuits are derived from the first principles of circuit theory based on energy conservation the circuit model of set is an impulsive current source and modeling distinguishes between bounded and unbounded currents the coulomb blockade is explained as a property of a single junction in addition this edition differs from the previous one by elaborating on the section on spice simulations and providing a spice simulation on the set electron box circuit including the spice netlist also a complete new proof of the two capacitor problem in circuit theory is presented the importance of this proof in understanding energy conservation in set circuits cannot be underestimated this book will be very useful for advanced undergraduate and graduate level students of electrical engineering and nanoelectronics and researchers in nanotechnology nanoelectronic device physics and computer science only book modeling both single electron tunneling and many electron tunneling from the points of view of electronics starting from experiments via a physics description working towards a circuit description and based on energy conservation in electrical circuits developing the impulse circuit model for single electron tunneling

nanoelectronics and photonics from atoms to materials devices and architectures provides a description of the core elements and challenges of advanced and future information technology tutorial chapters from leaders in the field cover fundamental topics ranging from materials to devices to system architecture by linking the materials physics and chemistry at the atomic scale with device and circuit design and performance requirements the book presents a coherent picture of theoretical and experimental research efforts and technology development in this highly interdisciplinary area short visionary articles by nicolaas bloembergen nobel laureate in physics 1981 konstantin likharev distinguished professor at stony brook university and stanley williams senior fellow and director of the quantum science research group at hewlett packard offer unique perspectives and insights nanoelectronics and photonics is essential reading for researchers and graduate students in materials science device physics and electrical and computer engineering key features provides an authoritative overview of the current status and future trends of nanoelectronics and photonics presents broad ranging tutorials on both theoretical and experimental aspects of key topics in nanotechnology written by recognized international experts in each area addresses the needs of both graduate students and nanotechnology gurus

a comprehensive textbook on nanoelectronics covering the underlying physics nanostructures nanomaterials and nanodevices

while theories based on classical physics have been very successful in helping experimentalists design microelectronic devices new approaches based on quantum mechanics are required to accurately model nanoscale transistors and to predict their characteristics even before they are fabricated advanced nanoelectronics provides research information on advanced nanoelectronics concepts with a focus on modeling and simulation featuring contributions by researchers actively engaged in nanoelectronics research it develops and applies analytical formulations to investigate nanoscale devices the book begins by introducing the basic ideas related to quantum theory that are needed to better understand nanoscale structures found in nanoelectronics including graphenes carbon nanotubes and quantum wells dots and wires it goes on to highlight some of the key concepts required to understand nanotransistors these concepts are then applied to the carbon nanotube field effect transistor cntfet several chapters cover graphene an unzipped form of cnt that is the recently discovered allotrope of carbon that has gained a tremendous amount of scientific and technological interest the book discusses the development of the graphene nanoribbon field effect transistor gnrfet and its use as a possible replacement to overcome the cnt chirality challenge it also examines silicon nanowire sinw as a new candidate for achieving the downscaling of devices the text describes the modeling and fabrication of sinw including a new top down fabrication technique strained technology which changes the properties of device materials rather than changing the device geometry is also discussed the book ends with a look at the technical and economic challenges that face the commercialization of nanoelectronics and what universities industries and government can do to lower the barriers a useful resource for professionals researchers and scientists this work brings together state of the art technical and scientific information on important topics in advanced nanoelectronics

a tutorial coverage of electronic technology starting from the basics of condensed matter and quantum physics experienced author ed wolf presents established and novel devices like field effect and single electron transistors and leads the reader up to applications in data storage quantum computing and energy harvesting intended to be self contained for students with two years of calculus based college physics with corresponding fundamental knowledge in mathematics computing and chemistry

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

many bottom up and top down techniques for nanomaterial and nanostructure generation have enabled the development of applications in nanoelectronics and nanophotonics handbook of nanophysics nanoelectronics and nanophotonics explores important recent applications of nanophysics in the areas of electronics and photonics each peer reviewed c

brings the band structure of carbon based devices into the limelight a shift to carbon is positioning biology as a process of synthesis in mainstream engineering silicon is quickly being replaced with carbon based electronics devices are being reduced down to nanometer scale and further potential applications are being considered while traditionally engineers are trained by way of physics chemistry and mathematics nanoelectronics quantum engineering of low dimensional nanoensembles establishes biology as an essential basic science for engineers to explore unifies science and engineering from quantum physics to nanoengineering drawing heavily on published papers by the author this research driven text offers a complete review of nanoelectronic transport starting from quantum waves to ohmic and ballistic conduction and saturation limited extreme nonequilibrium conditions in addition it highlights a new paradigm using non equilibrium arora s distribution function neadf and establishes this function as the starting point from band theory to equilibrium to extreme nonequilibrium carrier statistics the author focuses on nano electronic device design and development including carbon based devices and provides you with a vantage point for the global outlook on the future of nanoelectronics devices and ulsi encompassing ten chapters this illuminating text converts the electric field response of drift velocity into current voltage relationships that are driven by the presence of critical voltage and saturation current arising from the unidirectional drift of carriers applies the effect of these scaled down dimensions to nano mosfet metal oxide semiconductor field effect transistor considers specialized applications that can be tried through a number of suggested projects that are all feasible with matlab codes nanoelectronics quantum engineering of low dimensional nanoensembles contains the latest research in nanoelectronics identifies problems and other factors to consider when it comes to nanolayer design and application and ponders future trends print versions of this book also include access to the ebook version

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

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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

composed of contributions from top experts microelectronics to nanoelectronics materials devices and manufacturability offers a detailed overview of important recent scientific and technological developments in the rapidly evolving nanoelectronics arena under the editorial guidance and technical expertise of noted materials scientist anupama b kaul of california institute of technology s jet propulsion lab this book captures the ascent of microelectronics into the nanoscale realm it addresses a wide variety of important scientific and technological issues in nanoelectronics research and development the book also showcases some key application areas of micro electro mechanical systems mems that have reached the commercial realm capitalizing on dr kaul s considerable technical experience with micro and nanotechnologies and her extensive research in prestigious academic and industrial labs the book offers a fresh perspective on application driven research in micro and nanoelectronics including mems chapters explore how rapid developments in this area are transitioning from the lab to the market where new and exciting materials devices and manufacturing technologies are revolutionizing the electronics industry although many micro and nanotechnologies still face major scientific and technological challenges and remain within the realm of academic research labs rapid advances in this area have led to the recent emergence of new applications and markets this handbook encapsulates that exciting recent progress by providing high quality content contributed by international experts from academia leading industrial institutions such as hewlett packard and government laboratories including the u s department of energy s sandia national laboratory offering something for everyone from students to scientists to entrepreneurs this book showcases the broad spectrum of cutting edge technologies that show significant promise for electronics and related applications in which nanotechnology plays a key role

introducing up to date coverage of research in electron field emission from nanostructures vacuum nanoelectronic devices outlines the physics of quantum nanostructures basic principles of electron field emission and vacuum nanoelectronic devices operation and offers as insight state of the art and future researches and developments this book also evaluates the results of research and development of novel quantum electron sources that will determine the future development of vacuum nanoelectronics further to this the influence of quantum mechanical effects on high frequency vacuum nanoelectronic devices is also assessed key features in depth description and analysis of the fundamentals of quantum electron effects in novel electron sources comprehensive and up to date summary of the physics and technologies for thz sources for students of physical and engineering specialties and electronics engineers unique coverage of quantum physical results for electron field emission and novel electron sources with quantum effects relevant for many applications such as electron microscopy electron lithography imaging and communication systems and signal processing new approaches for realization of electron sources with required and optimal parameters in electronic devices such as vacuum micro and nanoelectronics this is an essential reference for researchers

working in terahertz technology wanting to expand their knowledge of electron beam generation in vacuum and electron source quantum concepts it is also valuable to advanced students in electronics engineering and physics who want to deepen their understanding of this topic ultimately the progress of the quantum nanostructure theory and technology will promote the progress and development of electron sources as main part of vacuum macro micro and nanoelectronics

this course text provides comprehensive coverage for fundamental and advanced courses in nanoelectronics it provides insight into the future of electronics emerging devices logic and memory sensors systems architecture nanofabrication and the fundamental physics behind nanoelectronics after reading the book students will be able to understand the applications and design principles of nanodevices and nanosensors the content is organised into nine chapters each covering a specific area and written in accessible language the topics covered include physical and technological limitations of nano cmos devices quantum physics simulation and modelling nanofabrication emerging logic and memory devices and application areas including nanoarchitectures sensors and transducers the book is a core text for senior undergraduate and postgraduate courses in nanoelectronics and a valuable reference for researchers engineers and specialists in fields including electronic devices solid state physics and nanotechnology key features core text for senior undergraduate and postgraduate courses in nanoelectronics brings together all related aspects of nanoelectronics including quantum physics nanofabrication electronics and applications provides insight into the future of electronics emerging devices logic and memory sensors systems architecture nanofabrication and fundamental physics written in an accessible style and supported by diagrams end of chapter summaries and questions to aid learning

the author presents all aspects in theory and experiments of nanoelectronic devices starting from field effect transistors and leading to alternative device concepts such as schottky barrier mosfets and band to band tunnel fets latest advances in nanoelectronics as ultralow power nanoscale devices and the realization of silicon mos spin qubits are discussed and finally a brief introduction into device simulations is given as well

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