

Mircea Dragoman • Daniela Dragoman

Nanoelectronics

PRINCIPLES AND DEVICES
SECOND EDITION

Nanoelectronics Principles And Devices The Artech House Nanoscale Science And Engineering

Jian-Qin Liu, Katsunori Shimohara



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Introduction to Nanorobotic Manipulation and Assembly Ning Xi,Guangyong Li,2012 Nanotechnology will allow us to build devices smaller than previously thought possible and will bring fundamental changes to disciplines within engineering chemistry medicine biology and physics Understanding the principles of nano manipulation and assembly is tremendously important for those aiming to develop nanoscale systems This forward looking resource offers you cutting edge coverage of the fundamentals and latest applications in this burgeoning field from an engineering perspective The book shows you how nano manipulation allows for the detection and manipulation of tiny entities such as single molecules nanotubes nanocubes cells viruses proteins and DNA molecules You discover the most promising nanorobotic manipulation and assembly methods and find clear examples of key application areas including nano sensors electronics and biomedical engineering Supported with over 100 illustrations this groundbreaking volumes offers comprehensive coverage of the subject from the physics of nano manipulation to robotic assembly of nano devices Moreover you get a glimpse of the future direction of this revolutionary technological area Nanoelectronics Mircea Dragoman,Daniela Dragoman,2006 Provides the treatment of the research technology and applications that are fueling the growth of nanoelectronics This book provides engineers and researchers with a foundation for the understanding design and simulation of nanoelectronic devices

Nanoscale Communication Networks Stephen F. Bush,2010 A highly useful resource for professionals and students alike this cutting edge first of its kind book provides a thorough introduction to nanoscale communication networks Written in a clear tutorial style this volume covers a wide range of the most important topics in the area from molecular communication and carbon nanotube nano networks to nanoscale quantum networking and the future direction of nano networks Moreover the book features numerous exercise problems at the end of each chapter to ensure a solid understanding of the material **Field Effect Transistors, A Comprehensive Overview** Pouya Valizadeh,2016-02-01 This book discusses modern day Metal Oxide Semiconductor Field Effect Transistors MOSFETs and future trends of transistor devices This book provides an overview of Field Effect Transistors FETs by discussing the basic principles of FETs and exploring the latest technological developments in the field It covers and connects a wide spectrum of topics related to semiconductor device physics physics of transistors and advanced transistor concepts This book contains six chapters Chapter 1 discusses electronic materials and charge Chapter 2 examines junctions discusses contacts under thermal equilibrium metal semiconductor contacts and metal insulator semiconductor systems Chapter 3 covers traditional planar Metal Oxide Semiconductor Field Effect Transistors MOSFETs Chapter 4 describes scaling driving technological variations and novel dimensions of MOSFETs Chapter 5 analyzes Heterojunction Field Effect Transistors FETs and also discusses the challenges and rewards of heteroepitaxy Finally Chapter 6 examines FETs at molecular scales Links the discussion of contemporary transistor devices to physical processes Material has been class tested in undergraduate and graduate courses

on the design of integrated circuit components taught by the author Contains examples and end of chapter problems Field Effect Transistors A Comprehensive Overview From Basic Concepts to Novel Technologies is a reference for senior undergraduate graduate students and professional engineers needing insight into physics of operation of modern FETs Pouya Valizadeh is Associate Professor in the Department of Electrical and Computer Engineering at Concordia University in Quebec Canada He received B S and M S degrees with honors from the University of Tehran and Ph D degree from The University of Michigan Ann Arbor all in Electrical Engineering in 1997 1999 and 2005 respectively Over the past decade Dr Valizadeh has taught numerous sections of five different courses covering topics such as semiconductor process technology semiconductor materials and their properties advanced solid state devices transistor design for modern CMOS technology and high speed transistors

Nanoelectronics Mircea Dragoman, Daniela Dragoman, 2009 This revised edition provides a current unified treatment of the research technology and applications fueling the rapid growth of nanoelectronics It features numerous updates including expanded discussions on nanomaterials micro and nano cantilevers and spintronics

Smart Structures Vinod K. Wadhawan, 2007-10-18 Smartness is often associated with living beings as they can adapt themselves to changing situations Artificial smart structures are designed to mimic biological structures to a small or large extent This book gives a comprehensive account of how this can be done It will be of interest to students and professionals in science and engineering

Bionanoelectronics Daniela Dragoman, Mircea Dragoman, 2012-03-22 This book presents the achievements in bionanoelectronics in a coherent manner It deals with nanodevices applied to biostructures molecular motors molecular pumps molecular nanoactuators and electronic biodevices including nanodevices for sensing and imaging biomolecules The book describes bionanoelectronics detection of biomolecules and targets various biological applications such as detection and sequencing of DNA and early detection of various diseases and nanomedicine Further important topics of the book are biomimetics and bioinspired electronics The book also deals with biomolecules as building blocks of nanodevices for nanoelectronics or future computing architecture The application of scanning probe techniques to biological samples is described

Molecular Electronics Michael C. Petty, 2008-03-11 This consistent and comprehensive text is unique in providing an informed insight into molecular electronics by contrasting the prospects for molecular scale electronics with the continuing development of the inorganic semiconductor industry Providing a wealth of information on the subject from background material to possible applications Molecular Electronics contains all the need to know information in one easily accessible place Speculation about future developments has also been included to give the whole picture of this increasingly popular and important topic

Biomolecular Computation for Bionanotechnology Jian-Qin Liu, Katsunori Shimohara, 2007 The drive toward non silicon computing is underway and this first of its kind guide to molecular computation gives researchers a firm grasp of the technologies biochemical details and theoretical models at the cutting edge It explores advances in molecular biology and nanotechnology and illuminates how the convergence of various technologies is propelling

computational capacity beyond the limitations of traditional hardware technology and into the realm of moleware

Intelligent Systems Modeling and Decision Support in Bioengineering Mahdi Mahfouf, 2006 Intelligent systems try to achieve through the use of computers flexible learning and adaptive activity like that found in the human brain For the first time this groundbreaking resource provides a detailed understanding of the analysis design and application of new intelligent systems in the biomedical industry

Quantum Mechanics Paul Bracken, 2020-10-14 Quantum mechanics touches all areas of physics chemistry life sciences and engineering It has emerged as a tool for researching and developing new technology that has had a deep impact on modern life An essential ingredient of quantum mechanics is the role of the observer and the duality between particle and wave properties of matter at very small scales This book covers such topics as complex space forms of quantum mechanics entropy in quantum mechanics and equations of relativistic quantum mechanics as well as applications of quantum mechanics to more complicated situations Written by international experts the book illustrates the wide scope influence and applicability of quantum mechanics

Organic and Molecular Electronics Michael C. Petty, 2018-10-29 An introduction to the interdisciplinary subject of molecular electronics revised and updated The revised second edition of Organic and Molecular Electronics offers a guide to the fabrication and application of a wide range of electronic devices based around organic materials and low cost technologies Since the publication of the first edition organic electronics has greatly progressed as evidenced by the myriad companies that have been established to explore the new possibilities The text contains an introduction into the physics and chemistry of organic materials and includes a discussion of the means to process the materials into a form in most cases a thin film where they can be exploited in electronic and optoelectronic devices The text covers the areas of application and potential application that range from chemical and biochemical sensors to plastic light emitting displays The updated second edition reflects the recent progress in both organic and molecular electronics and Offers an accessible resource for a wide range of readers Contains a comprehensive text that covers topics including electrical conductivity optical phenomena electroactive organic compounds tools for molecular electronics and much more Includes illustrative examples based on the most recent research Presents problems at the end of each chapter to help reinforce key points Written mainly for engineering students Organic and Molecular Electronics From Principles to Practice provides an updated introduction to the interdisciplinary subjects of organic electronics and molecular electronics with detailed examples of applications

Electronics Michael Olorunfunmi Kolawole, 2020-06-15 This book gives clear explanations of the technical aspects of electronics engineering from basic classical device formulations to the use of nanotechnology to develop efficient quantum electronic systems As well as being up to date this book provides a broader range of topics than found in many other electronics books This book is written in a clear accessible style and covers topics in a comprehensive manner This book s approach is strongly application based with key mathematical techniques introduced helpful examples used to illustrate the design procedures and case studies provided where appropriate By including the

fundamentals as well as more advanced techniques the author has produced an up to date reference that meets the requirements of electronics and communications students and professional engineers Features Discusses formulation and classification of integrated circuits Develops a hierarchical structure of functional logic blocks to build more complex digital logic circuits Outlines the structure of transistors bipolar JFET MOSFET or MOS CMOS their processing techniques their arrangement forming logic gates and digital circuits optimal pass transistor stages of buffered chain sources and types of noise and performance of designed circuits under noisy conditions Explains data conversion processes choice of the converter types and inherent errors Describes electronic properties of nanomaterials the crystallites size reduction effect and the principles of nanoscale structure fabrication Outlines the principles of quantum electronics leading to the development of lasers masers reversible quantum gates and circuits and applications of quantum cells and fabrication methods including self assembly quantum dot cellular automata and tunneling superconducting circuits and describes quantum error correction techniques Problems are provided at the end of each chapter to challenge the reader s understanding American Book Publishing Record ,2006 **Introduction to Nanoelectronics** Vladimir V. Mitin, Viatcheslav A. Kochelap, Michael A. Strosio, 2008 A comprehensive textbook on nanoelectronics covering the underlying physics nanostructures nanomaterials and nanodevices *Fundamentals and Applications of Nanomaterials* Zhen Guo, Li Tan, 2009 Supported by over 90 illustrations this timely resource offers you a broad introduction to nanomaterials covering basic principles technology and cutting edge applications From quantum mechanics band structure surface chemistry thermodynamics and kinetics of nanomaterials to nanomaterial characterization nanoparticle synthesis nanoelectronics NEMS and Nano Bio materials this groundbreaking volume offers you a solid understanding of a wide range of fundamental topics and brings you up to date with the latest developments in the field **Microelectronics to Nanoelectronics** Anupama B. Kaul, 2012-08-24 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 Nanoscale Device Physics Sandip Tiwari,2017 The primary advanced textbook for the teaching of science and engineering of nanoscale devices as used in the semiconductor electronics magnetics optics and electromechanics industry Nanoelectronic Devices for Hardware and Software Security Arun Kumar Singh,Balwinder Raj,2021-10-31 Nanoelectronic Devices for Hardware and Software Security has comprehensive coverage of the principles basic concepts structure modeling practices and circuit applications of nanoelectronics in hardware software security It also covers the future research directions in this domain In this evolving era nanotechnology is converting semiconductor devices dimensions from micron technology to nanotechnology Nanoelectronics would be the key enabler for innovation in nanoscale devices circuits and systems The motive for this research book is to provide relevant theoretical frameworks that include device physics modeling circuit design and the latest developments in experimental fabrication in the field of nanotechnology for hardware software security There are numerous challenges in the development of models for nanoscale devices e g FinFET gate all around devices TFET etc short channel effects fringing effects high leakage current and power dissipation among others This book will help to identify areas where there are challenges and apply nanodevice and circuit techniques to address hardware software security issues

Nanoelectronics and Photonics Anatoli Korkin,Federico Rosei,2008-09-23 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

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