

Mircea Dragoman • Daniela Dragoman

Nanoelectronics

PRINCIPLES AND DEVICES
SECOND EDITION

Nanoelectronics Principles And Devices The Artech House Nanoscale Science And Engineering

Daniela Dragoman, Mircea Dragoman



Nanoelectronics Principles And Devices The Artech House Nanoscale Science And Engineering:

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 **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 A structure is an assembly that serves an engineering function A smart structure is one that serves this function smartly i e by responding adaptively in a pre designed useful and efficient manner to changing environmental conditions Adaptive behaviour of one or more materials constituting a smart structure requires nonlinear response This book describes the three main types of nonlinear response materials ferroic materials soft materials and nanostructured materials Information processing by biological and artificial

smart structures is also discussed A smart structure typically has sensors actuators and a control system Progress in all these aspects of smart structures has leant heavily on mimicking Nature and the all important notion in this context has been that of evolution Artificial Darwinian and Lamarckian evolution holds the key to the development of truly smart structures Modestly intelligent robots are already on the horizon Projections about the low cost availability of adequate computing power and memory size indicate that the future really belongs to smart structures This book covers in a compact format the entire gamut of concepts relevant to smart structures It should be of interest to a wide range of 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

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

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

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

American Book Publishing Record, 2006

Introduction to Nanoelectronics Vladimir V. Mitin, Viatcheslav A. Kochelap, Michael A. Stroscio, 2007-12-06 Increasing miniaturization of devices components and integrated systems requires developments in the capacity to measure organize

and manipulate matter at the nanoscale This textbook first published in 2007 is a comprehensive interdisciplinary account of the technology and science that underpin nanoelectronics covering the underlying physics nanostructures nanomaterials and nanodevices Without assuming prior knowledge of quantum physics this book provides a unifying framework for the basic ideas needed to understand the recent developments in the field Numerous illustrations homework problems and interactive Java applets help the student to appreciate the basic principles of nanotechnology and to apply them to real problems Written in a clear yet rigorous and interdisciplinary manner this textbook is suitable for advanced undergraduate and graduate students in electrical and electronic engineering nanoscience materials bioengineering and chemical engineering

Microelectronics to Nanoelectronics Anupama B. Kaul, 2017-12-19 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 *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 **Nanoelectronics Fundamentals** Hassan

Raza,2019-11-26 This book covers the state of the art in the theoretical framework computational modeling and the fabrication and characterization of nanoelectronics devices It addresses material properties device physics circuit analysis system design and a range of applications A discussion on the nanoscale fabrication characterization and metrology is also included The book offers a valuable resource for researchers graduate students and senior undergraduate students in engineering and natural sciences who are interested in exploring nanoelectronics from materials devices systems and applications perspectives **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 students and nanotechnology gurus

Nanoelectronics: Physics, Materials and Devices Angsuman Sarkar,Chandan Kumar Sarkar,Arpan Deyasi,Debashis De,Arezki Benfdila,2023-01-03 Approx 528 pagesApprox 528 pages **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

Nanoscale Devices Brajesh Kumar Kaushik,2018-11-16 The primary aim of this book is to discuss various aspects of nanoscale device design and their applications including transport mechanism modeling and circuit applications Provides a platform for modeling and analysis of state of the art devices in nanoscale regime reviews issues related to optimizing the sub nanometer device performance and addresses simulation aspect and or fabrication process of devices Also includes design problems at the end of each chapter

Nanoelectronics Robert Puers,Livio Baldi,Marcel Van de Voorde,Sebastiaan E. van Nooten,2017-06-19 Offering first hand insights by top scientists and industry experts at the forefront of R D into nanoelectronics this book neatly links the underlying technological principles with present and future applications A brief introduction is followed by an overview of present and emerging logic devices memories and power technologies Specific chapters are dedicated to the enabling factors such as new materials characterization techniques smart manufacturing and advanced circuit design The second part of the book provides detailed coverage of the current state and showcases real future applications in a wide range of fields safety transport medicine environment manufacturing and social life including an analysis of emerging trends in the internet of things and cyber physical systems A survey of main economic factors and trends concludes the book Highlighting the importance of nanoelectronics in the core fields of communication and information technology this is essential reading for materials scientists electronics and electrical engineers as well as those working in the semiconductor and sensor industries

Nanoelectronics and Information Technology Rainer Waser,2012-05-29 This outstanding textbook provides an introduction to electronic materials and device concepts for the major areas of current and future information technology On about 1 000 pages it collects the fundamental concepts and key technologies related to advanced electronic materials and devices The obvious strength of the book is its encyclopedic character providing adequate background material instead of just reviewing current trends It focuses on the underlying principles which are illustrated by contemporary examples The third edition now holds 47 chapters grouped into eight

sections The first two sections are devoted to principles materials processing and characterization methods Following sections hold contributions to relevant materials and various devices computational concepts storage systems data transmission imaging systems and displays Each subject area is opened by a tutorial introduction written by the editor and giving a rich list of references The following chapters provide a concise yet in depth description in a given topic Primarily aimed at graduate students of physics electrical engineering and information technology as well as material science this book is equally of interest to professionals looking for a broader overview Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields

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