

High-speed flexostructure devices

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High Speed Heterostructure Devices From Device Concepts To Circuit Modeling

Tor A Fjeldly, Michael S Shur



High Speed Heterostructure Devices From Device Concepts To Circuit Modeling:

High-speed Heterostructure Devices Patrick Roblin, 2006

High-Speed Heterostructure Devices Patrick

Roblin, Hans Rohdin, 2002-03-07 Fuelled by rapid growth in communications technology silicon heterostructures and related high speed semiconductors are spearheading the drive toward smaller faster and lower power devices High Speed Heterostructure Devices is a textbook on modern high speed semiconductor devices intended for both graduate students and practising engineers This book is concerned with the underlying physics of heterostructures as well as some of the most recent techniques for modeling and simulating these devices Emphasis is placed on heterostructure devices of the immediate future such as the MODFET HBT and RTD The principles of operation of other devices such as the Bloch Oscillator RITD Gunn diode quantum cascade laser and SOI and LD MOSFETs are also introduced Initially developed for a graduate course taught at Ohio State University the book comes with a complete set of homework problems and a web link to MATLAB programs supporting the lecture 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

Physics of Semiconductor Devices Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-03-03 The

new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors Physics of Semiconductor Devices Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

Silicon And Beyond: Advanced Device Models And Circuit Simulators Tor A Fjeldly, Michael S Shur, 2000-04-20 The steady downscaling of device feature size combined with a rapid increase in circuit complexity as well as the introduction of new device concepts based on non silicon material systems poses great challenges for device and circuit designers One of the major tasks is the development of new and improved device models needed for accurate device and circuit design Another task is the development of new circuit simulation tools to handle very large and complex circuits This book addresses both these issues with up to date reviews written by leading experts in the field The first three chapters of the book discuss advanced device models both for existing technologies and for new emerging technologies Among the topics covered are models for MOSFETs thin film transistors TFTs and compound semiconductor devices including GaAs HEMTs and HFETs heterodimensional devices quantum tunneling devices as well as wide bandgap devices Chapters 4 and 5 discuss advanced circuit simulators that hold promise for handling circuits of much higher complexity than what is possible for typical state of

the art circuit simulators today *Analysis and Simulation of Heterostructure Devices* Vassil Palankovski, Rüdiger Quay, 2012-12-06 Communication and information systems are subject to rapid and highly sophisticated changes. Currently, semiconductor heterostructure devices such as Heterojunction Bipolar Transistors (HBTs) and High Electron Mobility Transistors (HEMTs) are among the fastest and most advanced high frequency devices. They satisfy the requirements for low power consumption, medium integration, low cost in large quantities, and high speed operation capabilities in circuits. In the very high frequency range, cut off frequencies up to 500 GHz have been reported on the device level. HEMTs and HBTs are very suitable for high efficiency power amplifiers at 900 MHz as well as for data rates higher than 100 Gbit/s for long range communication and thus cover a broad range of applications. To cope with explosive development costs and the competition of today's semiconductor industry, Technology Computer Aided Design (TCAD) methodologies are used extensively in development and production. As of 2003, III-V semiconductor HEMT and HBT micrometer and millimeter wave integrated circuits (MICs and MMICs) are available on six inch GaAs wafers. SiGe HBT circuits as part of the CMOS technology on eight inch wafers are in volume production. Simulation tools for technology devices and circuits reduce expensive technological efforts. This book focuses on the application of simulation software to heterostructure devices with respect to industrial applications. In particular, a detailed discussion of physical modeling for a great variety of materials is presented.

Terahertz Sensing Technology: Emerging scientific applications & novel device concepts Dwight L. Woolard, William R. Loerop, Michael S. Shur, 2003 The last research frontier in high frequency electronics lies in the so called terahertz or submillimeter wave regime between the traditional microwave and the infrared domains. Significant scientific and technical challenges within the terahertz (THz) frequency regime have recently motivated an array of new research activities. During the last few years, major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing. This book provides a detailed review of the new THz frequency technological developments that are emerging across a wide spectrum of sensing and technology areas. Volume II presents cutting edge results in two primary areas: 1) research that is attempting to establish THz frequency sensing as a new characterization tool for chemical, biological, and semiconductor materials, and 2) theoretical and experimental efforts to define new device concepts within the THz gap.

Terahertz Sensing Technology - Vol 2: Emerging Scientific Applications And Novel Device Concepts Michael S. Shur, Dwight L. Woolard, William R. Loerop, 2004-02-06 The last research frontier in high frequency electronics lies in the so called terahertz or submillimeter wave regime between the traditional microwave and the infrared domains. Significant scientific and technical challenges within the terahertz (THz) frequency regime have recently motivated an array of new research activities. During the last few years, major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing. This book provides a detailed review of the new

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Volume II presents cutting edge results in two primary areas 1 research that is attempting to establish THz frequency sensing as a new characterization tool for chemical biological and semiconductor materials and 2 theoretical and experimental efforts to define new device concepts within the THz gap

Compound Semiconductor Device Modelling

Christopher M. Snowden, Robert E. Miles, 2012-12-06 Compound semiconductor devices form the foundation of solid state microwave and optoelectronic technologies used in many modern communication systems In common with their low frequency counterparts these devices are often represented using equivalent circuit models but it is often necessary to resort to physical models in order to gain insight into the detailed operation of compound semiconductor devices Many of the earliest physical models were indeed developed to understand the unusual phenomena which occur at high frequencies Such was the case with the Gunn and IMPATT diodes which led to an increased interest in using numerical simulation methods Contemporary devices often have feature sizes so small that they no longer operate within the familiar traditional framework and hot electron or even quantum mechanical models are required The need for accurate and efficient models suitable for computer aided design has increased with the demand for a wider range of integrated devices for operation at microwave millimetre and optical frequencies The apparent complexity of equivalent circuit and physics based models distinguishes high frequency devices from their low frequency counterparts Over the past twenty years a wide range of modelling techniques have emerged suitable for describing the operation of compound semiconductor devices This book brings together for the first time the most popular techniques in everyday use by engineers and scientists The book specifically addresses the requirements and techniques suitable for modelling GaAs InP ternary and quaternary semiconductor devices found in modern technology

Physik der Halbleiterbauelemente Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-10-26 Physik der Halbleiterbauelemente Das Standardwerk zur Physik der Halbleiterbauelemente erstmals auf Deutsch Dieses einzigartige Buch geschrieben von Pionieren auf dem Gebiet behandelt sämtliche Aspekte der Physik der Halbleiterbauelemente die zu deren Verständnis Betrieb Weiter und Neuentwicklung notwendig sind Wie das englische Original ist die deutsche Ausgabe ein unverzichtbares Nachschlagewerk in der industrieorientierten Halbleiterforschung und eignet sich ebenfalls ausgezeichnet als Einstiegsliteratur für Studierende sowie als Unterrichtsmaterial für Vortragende Bei der deutschen Ausgabe wurde besonderer Wert auf eine gute Lesbarkeit gelegt und daher die Übersetzung teilweise unter Rückgriff auf die von den Autoren zitierten Originalquellen so gestaltet dass unnötige Anglizismen vermieden werden Das englische Fachvokabular ist ergänzend an den entsprechenden Stellen im Text eingearbeitet um den Leserinnen und Lesern den Gebrauch der englischsprachigen Fachliteratur zu erleichtern Gelegentliche Anmerkungen im Text und Verweise auf weitere Originalquellen tragen zusätzlich zum besseren Verständnis der Materie bei Als das Referenzwerk schlechthin ist der Sze ein Muss für alle die sich in Forschung Entwicklung und Lehre mit Halbleiterbauelementen beschäftigen Die Inhalte sind kompakt

und präzise beschrieben und eignen sich perfekt für den Einstieg in das jeweilige Gebiet komplettiert durch vertiefende Beispiele zu jedem Kapitel Physik der Halbleiterbauelemente bietet eine unerreichte Detailfülle und ausführliche Informationen über die Physik und den Betrieb aller relevanten Halbleiterbauelemente mit 1000 Literaturangaben 650 technischen Illustrationen sowie 25 Tabellen mit Material und Bauelementparametern Aus dem Inhalt Halbleiterphysik Grundlagen p-n-Berg-n-Metall Halbleiter Kontakte MIS Kondensatoren Bipolartransistoren MOSFETs Nichtflüchtige Speicher JFETs MESFETs und MODFETs Tunnel Bauelemente IMPATT Dioden TE und RST Devices Thyristoren und Leistungselemente Photodetektoren und Solarzellen Sensoren **Microwave Heterostructure Device**

Characterization and Modeling for Their High-power and Low-noise Properties Shuo-Hung Hsu, 2003 *The British National Bibliography* Arthur James Wells, 2002 *Compound Semiconductor Integrated Circuits* Tho T Vu, 2003-04-02 This is the book version of a special issue of the International Journal of High Speed Electronics and Systems reviewing recent work in the field of compound semiconductor integrated circuits There are fourteen invited papers covering a wide range of applications frequencies and materials These papers deal with digital analog microwave and millimeter wave technologies devices and integrated circuits for wireline fiber optic lightwave transmissions and wireless radio frequency microwave and millimeter wave communications In each case the market is young and experiencing rapid growth for both commercial and military applications Many new semiconductor technologies compete for these new markets leading to an alphabet soup of semiconductor materials described in these papers The book also includes three papers focused on radiation effects and reliability in III-V semiconductor electronics which are useful for reference and future directions Moreover reliability is covered in several papers separately for certain process technologies *Measurement and Modeling of Silicon Heterostructure Devices* John D. Cressler, 2018-10-03 When you see a nicely presented set of data the natural response is How did they do that what tricks did they use and how can I do that for myself Alas usually you must simply keep wondering since such tricks of the trade are usually held close to the vest and rarely divulged Shamefully ignored in the technical literature measurement and modeling of high speed semiconductor devices is a fine art Robust measuring and modeling at the levels of performance found in modern SiGe devices requires extreme dexterity in the laboratory to obtain reliable data and then a valid model to fit that data Drawn from the comprehensive and well reviewed Silicon Heterostructure Handbook this volume focuses on measurement and modeling of high speed silicon heterostructure devices The chapter authors provide experience based tricks of the trade and the subtle nuances of measuring and modeling advanced devices making this an important reference for the semiconductor industry It includes easy to reference appendices covering topics such as the properties of silicon and germanium the generalized Moll-Ross relations the integral charge control model and sample SiGe HBT compact model parameters **Scientific and Technical Aerospace Reports**, 1994 **American Journal of Physics**, 2002 **The Electrical Engineering Handbook, Second Edition** Richard C. Dorf, 1997-09-26 In 1993 the first

edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work. Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today. Every electrical engineer should have an opportunity to expand his expertise with this definitive guide. In a single volume, this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry, government, or academia. This well-organized book is divided into 12 major sections that encompass the entire field of electrical engineering, including circuits, signal processing, electronics, electromagnetics, electrical effects and devices, and energy, and the emerging trends in the fields of communications, digital devices, computer engineering, systems, and biomedical engineering. A compendium of physical, chemical, material, and mathematical data completes this comprehensive resource. Every major topic is thoroughly covered, and every important concept is defined, described, and illustrated. Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer, researchers, and students. A distinguished advisory board and contributors, including many of the leading authors, professors, and researchers in the field today, assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field. No other single volume available today offers this combination of broad coverage and depth of exploration of the topics. The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come.

Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar Richard C. Dorf, 2018-10-03. In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has expanded into a set of six books, carefully focused on a specialized area or field of study: Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar. This represents a concise yet definitive collection of key concepts, models, and equations in these areas, thoughtfully gathered for convenient access. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics. Articles include defining terms, references, and sources of further information. Encompassing the work of the world's foremost experts in their respective specialties, Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar features the latest developments, the broadest scope of coverage, and new material in emerging areas.

Modeling and Characterization of Abrupt Heterojunction Bipolar Transistors Kyoung-hoon Yang, 1994. *Chemical Abstracts*, 2002.

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