

Advanced Semiconductor Device Physics and Modeling

Jun J. Liou

Advanced Semiconductor Device Physics And Modeling

**Zhenghao Gan, Waisum Wong, Juin J.
Liou**



Advanced Semiconductor Device Physics And Modeling:

Advanced Semiconductor Device Physics and Modeling Jun J. Liou, 1994-01-01 This reference provides detailed information on semiconductor physics and modelling *Integrated Microelectronic Devices* Jesús A. del Alamo, 2018 The central goal of this book is to present the fundamentals of semiconductor device operation with relevance to modern integrated microelectronics as opposed to say photonics energy conversion devices or power electronics This means that no optical devices nor power devices of any kind are described In contrast emphasis is devoted to frequency response layout geometrical effects parasitic issues and modeling in integrated microelectronics devices transistors and diodes In spite of this focus the concepts learned here are highly applicable in other device contexts This book should be a great resource for a broad range of students with a diverse set of interests 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 IMPATI 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

Advanced Semiconductor Device Modeling for Circuit Simulation Yu Liu, 1993 **Physics of Semiconductor Devices** Massimo Rudan, 2014-12-11 This book describes the basic physics of semiconductors including the hierarchy of transport models and connects the theory with the functioning of actual semiconductor devices Details are worked out carefully and derived from the basic physics while keeping the internal coherence of the concepts and explaining various levels of approximation Examples are based on silicon due to its industrial importance Several chapters are included that provide the reader with the quantum mechanical concepts necessary for understanding the transport properties of crystals The behavior of crystals incorporating a position dependent impurity distribution is described and the different hierarchical

transport models for semiconductor devices are derived from the Boltzmann transport equation to the hydrodynamic and drift diffusion models The transport models are then applied to a detailed description of the main semiconductor device architectures bipolar MOS The final chapters are devoted to the description of some basic fabrication steps and to measuring methods for the semiconductor device parameters Device Physics, Modeling, Technology, and Analysis for Silicon MESFET Iraj Sadegh Amiri, Hossein Mohammadi, Mahdiar Hosseinghadiry, 2018-12-13 This book provides detailed and accurate information on the history structure operation benefits and advanced structures of silicon MESFET along with modeling and analysis of the device The authors explain the detailed physics that are important in modeling of SOI MESFETs and present the derivations of compact model expressions so that users can recognize the physical meaning of the model equations and parameters The discussion also includes advanced structures for SOI MESFET for submicron applications

Department of Commerce Technology Programs United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Science, Research, and Technology, 1989 **3D TCAD Simulation for CMOS**

Nanoelectronic Devices Yung-Chun Wu, Yi-Ruei Jhan, 2017-06-19 This book demonstrates how to use the Synopsys Sentaurus TCAD 2014 version for the design and simulation of 3D CMOS complementary metal oxide semiconductor semiconductor nanoelectronic devices while also providing selected source codes Technology Computer Aided Design TCAD Instead of the built in examples of Sentaurus TCAD 2014 the practical cases presented here based on years of teaching and research experience are used to interpret and analyze simulation results of the physical and electrical properties of designed 3D CMOSFET metal oxide semiconductor field effect transistor nanoelectronic devices The book also addresses in detail the fundamental theory of advanced semiconductor device design for the further simulation and analysis of electric and physical properties of semiconductor devices The design and simulation technologies for nano semiconductor devices explored here are more practical in nature and representative of the semiconductor industry and as such can promote the development of pioneering semiconductor devices semiconductor device physics and more practically oriented approaches to teaching and learning semiconductor engineering The book can be used for graduate and senior undergraduate students alike while also offering a reference guide for engineers and experts in the semiconductor industry Readers are expected to have some preliminary knowledge of the field **Computational Modeling in Semiconductor Processing** M. Meyyappan, 1995 This

book provides you with in depth coverage of the models governing equations and numerical techniques suitable for process simulation so you can give your designs the competitive edge You will understand the basic principles of transport phenomena gas phase and surface reactions in electronics material processing and learn practical numerical techniques used in process simulations *Two-dimensional numerical modeling of advanced semiconductor devices from the physical point of view* Kaj J. Grahn, 1993 Radiation Effects in Advanced Semiconductor Materials and Devices C. Claeys, E. Simoen, 2013-11-11 In the modern semiconductor industry there is a growing need to understand and combat potential

radiation damage problems Space applications are an obvious case but beyond that today's device and circuit fabrication rely on increasing numbers of processing steps that involve an aggressive environment where inadvertent radiation damage can occur This book is both aimed at post graduate researchers seeking an overview of the field and will also be immensely useful for nuclear and space engineers and even process engineers A background knowledge of semiconductor and device physics is assumed but the basic concepts are all briefly summarized Finally the book outlines the shortcomings of present experimental and modeling techniques and gives an outlook on future developments

Semiconductor Process

Reliability in Practice Zhenghao Gan, Waisum Wong, Jun J. Liou, 2012-10-06 Proven processes for ensuring semiconductor device reliability Co written by experts in the field Semiconductor Process Reliability in Practice contains detailed descriptions and analyses of reliability and qualification for semiconductor device manufacturing and discusses the underlying physics and theory The book covers initial specification definition test structure design analysis of test structure data and final qualification of the process Real world examples of test structure designs to qualify front end of line devices and back end of line interconnects are provided in this practical comprehensive guide Coverage includes Basic device physics Process flow for MOS manufacturing Measurements useful for device reliability characterization Hot carrier injection Gate oxide integrity GOI and time dependent dielectric breakdown TDDB Negative bias temperature instability Plasma induced damage Electrostatic discharge protection of integrated circuits Electromigration Stress migration Intermetal dielectric breakdown

High-level Test Synthesis of Digital VLSI Circuits Mike Tien-Chien Lee, 1997 Here is the first book to propose HTS as a complete more effective design approach the author explains how HTS unlike most existing high level synthesis techniques that optimize the circuit architecture for area and performance only is able to explore the synthesis freedom provided at high level to derive an inherently testable architecture at low or even no overhead By permitting testing from the earliest design stages to minimize or even eliminate serious testing problems HTS boosts design quality and shortens the development cycle

1997 IEEE 12th Applied Power Electronics Conference, 1997 These proceedings provide comprehensive coverage of the fundamental technology used in the control and conversion of electric power The papers cover the entire electric power industry from supply basis to magnetic design from manufacturability to regulation

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 *InP HBTs* B. Jalali, S. J. Pearton, 1995 This work provides a comprehensive overview of current InP HBT technology and its applications Each chapter is written by a world renowned expert on topics including crystal growth processing physics modelling and digital and analog circuits **Advanced Theory of Semiconductor Devices** Karl Hess, 1988 **Proceedings**, 1997

Principles and Analysis of AlGaAs/GaAs Heterojunction Bipolar Transistors Juin J. Liou, 1996 The first book devoted entirely to HBTs this reference examines the basic concept standard and advanced structures noise performance reliability issues and simulation It s main emphasis is on device physics and its mathematical representations through which the operational characterization of AlGaAs GaAs HBTs can be understood It enables device engineers device researchers and circuit designers to increase their knowledge of HBT principles and behavior with significantly less literature research time and to design optimal HBTs with minimal design time Extensively referenced with 150 illustrations and 250 equations

Physics of Semiconductor Devices J.-P. Colinge, C.A. Colinge, 2007-05-08 Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner

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