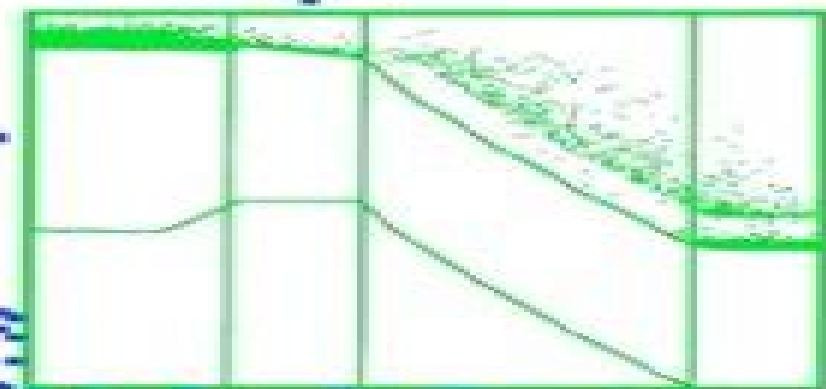


NUMERICAL SIMULATION OF SUBMICRON SEMICONDUCTOR DEVICES



KAZUTAKA TOMIZAWA

Numerical Simulation Of Submicron Semiconductor Devices

Dietmar Schroeder

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Numerical Simulation of Submicron Semiconductor Devices Kazutaka Tomizawa, 1993-01-01 Describes the basic theory of carrier transport develops numerical algorithms used for transport problems or device simulations and presents real world examples of implementation

Numerical Simulation of Semiconductor Structures Abel Garcia-Barrientos, Vladimir Grimalsky, 2013-10-21 The investigation of new materials devices and techniques to improve the performance of telecommunications spectroscopy and radar systems applications has caused that the study of non stationary effects of space charge in semiconductor structures be a strategy research area in the field of high speed semiconductor devices Therefore this book focuses in the study of the non stationary effects of the space charge in semiconductor structures where the nonlinear wave interaction in active media may serve to improve the high frequency performance of semiconductor devices

The Physics of Submicron Semiconductor Devices (Nato Asi Series. Series B. Physics, Vol 180) Harold L. Grubin, David K. Ferry, C. Jacoboni, 1988 The papers contained in the volume represent lectures delivered as a 1983 NATO ASI held at Urbino Italy The lecture series was designed to identify the key submicron and ultrasubmicron device physics transport materials and contact issues Nonequilibrium transport quantum transport interfacial and size constraints issues were also highlighted The ASI was supported by NATO and the European Research Office H L Grubin D K Ferry C Jacoboni v CONTENTS MODELLING OF SUB MICRON DEVICES 1 E Constant BOLTZMANN TRANSPORT EQUATION 33 K Hess TRANSPORT AND MATERIAL CONSIDERATIONS FOR SUBMICRON DEVICES 45 H L Grubin EPITAXIAL GROWTH FOR SUB MICRON STRUCTURES 179 C E C Wood INSULATOR SEMICONDUCTOR INTERFACES 195 C W Wilms en THEORY OF THE ELECTRONIC STRUCTURE OF SEMICONDUCTOR SURFACES AND INTERFACES 223 C Calandra DEEP LEVELS AT COMPOUND SEMICONDUCTOR INTERFACES 253 W Monch ENSEMBLE MONTE CARLO TECHNIQUES 289 C Jacoboni NOISE AND DIFFUSION IN SUBMICRON STRUCTURES 323 L Reggiani SUPERLATTICES 361 K Hess SUBMICRON LITHOGRAPHY 373 C D W Wilkinson and S P Beaumont QUANTUM EFFECTS IN DEVICE STRUCTURES DUE TO SUBMICRON CONFINEMENT IN ONE DIMENSION 401 B D McCombe vii viii CONTENTS PHYSICS OF HETEROSTRUCTURES AND HETEROSTRUCTURE DEVICES 445 P J Price CORRELATION EFFECTS IN SHORT TIME NONS TAT I ONARY TRANSPORT 477 J J Niez DEVICE DEVICE INTERACTIONS 503 D K Ferry QUANTUM TRANSPORT AND THE WIGNER FUNCTION 521 G J Iafrate FAR INFRARED MEASUREMENTS OF VELOCITY OVERSHOOT AND HOT ELECTRON DYNAMICS IN SEMICONDUCTOR DEVICES 577 S J Allen Jr RF and Microwave Semiconductor Device Handbook Mike Golio, 2017-12-19 Offering a single volume reference for high frequency semiconductor devices this handbook covers basic material characteristics system level concerns and constraints simulation and modeling of devices and packaging Individual chapters detail the properties and characteristics of each semiconductor device type including Varactors Schottky diodes transit time devices BJTs HBTs MOSFETs MESFETs and HEMTs Written by leading researchers in

the field the RF and Microwave Semiconductor Device Handbook provides an excellent starting point for programs involving development technology comparison or acquisition of RF and wireless semiconductor devices

Applications of Silicon-Germanium Heterostructure Devices C.K Maiti, G.A Armstrong, 2001-07-20 The first book to deal with the design and optimization of transistors made from strained layers Applications of Silicon Germanium Heterostructure Devices

combines three distinct topics technology device design and simulation and applications in a comprehensive way Important aspects of the book include key technology issues for the growth of st

Viscous Profiles and Numerical Methods for Shock Waves Michael Shearer, 1991-01-01 One strongly represented theme is the power of ideas from dynamical systems that are being adapted and developed in the context of shock waves

Numerical Models for the Simulation of Nonstationary Effects in Submicron Semiconductor Devices Edwin Chihchuan Kan, 1992 Numerical modeling of nonstationary transport effects using partial differential equations derived from the Boltzmann Transport Equation BTE is investigated Augmented drift

diffusion ADD models and improved energy transport ET models for submicron device simulation are constructed and numerically implemented Analytical derivation of the length coefficient for the ADD models is presented for both single and

multi valley approximations Results of typical nsp n nsp ballistic diodes for Si and GaAs are presented The extension of the ADD model to two dimensions is then formulated and the implementation problems with the standard box integration method as used in conventional drift diffusion DD models are examined Improved ET models are derived from the zeroth and second

moments of the Boltzmann transport equation and from the presumed function form of the even part of the distribution function Energy band nonparabolicity and non Maxwellian distribution effects are included to first order The ET models are amenable to an efficient self consistent discretization with standard techniques taking advantage of the similarity between current and energy flow equations Numerical results for ballistic diodes and MOSFETs are presented Typical spurious velocity overshoot spikes obtained in conventional hydrodynamics simulations of ballistic diodes are virtually eliminated By comparing the formulation of the ET and HD models we find that the spurious spike is caused by the momentum relaxation time approximation and the resulting form of the thermal diffusion terms Calculations based on a two carrier population

model at the anode junction further confirm our analysis of the spurious spike

Modelling of Interface Carrier Transport for Device Simulation Dietmar Schroeder, 2013-03-09 This book represents a comprehensive text devoted to charge transport at semiconductor interfaces and its consideration in device simulation by interface and boundary conditions It contains a

broad review of the physics modelling and simulation of electron transport at interfaces in semiconductor devices Particular emphasis is put on the consistent derivation of interface or boundary conditions for semiconductor device simulation The book is of interest with respect to a wide range of electronic engineering activities as process design device design process

characterization research in microelectronics or device simulator development It is also useful for students and lecturers in courses of electronic engineering and it supplements the library of technically oriented solid state physicists The deepest

roots of this book date back to the mid seventies Being a student of electrical engineering who was exposed for the first time to the material of semiconductor device electronics I was puzzled by noticing that much emphasis was put on a thorough introduction and understanding of the basic semiconductor equations while the boundary conditions for these equations received very much less attention Until today on many occasions one could get the impression that boundary conditions are unimportant accessories they do not stand on their own besides the bulk transport equations although it is clear that they are of course a necessary complement of these

Hot Carrier Degradation in Semiconductor Devices Tibor Grasser, 2014-10-29

This book provides readers with a variety of tools to address the challenges posed by hot carrier degradation one of today's most complicated reliability issues in semiconductor devices Coverage includes an explanation of carrier transport within devices and book keeping of how they acquire energy become hot interaction of an ensemble of colder and hotter carriers with defect precursors which eventually leads to the creation of a defect and a description of how these defects interact with the device degrading its performance

Scientific Computing in Electrical Engineering SCEE 2010 Bastiaan

Michielsen, Jean-René Poirier, 2012-01-06 Selected from papers presented at the 8th Scientific Computation in Electrical Engineering conference in Toulouse in 2010 the contributions to this volume cover every angle of numerically modelling electronic and electrical systems including computational electromagnetics circuit theory and simulation and device modelling On computational electromagnetics the chapters examine cutting edge material ranging from low frequency electrical machine modelling problems to issues in high frequency scattering Regarding circuit theory and simulation the book details the most advanced techniques for modelling networks with many thousands of components Modelling devices at microscopic levels is covered by a number of fundamental mathematical physics papers while numerous papers on model order reduction help engineers and systems designers to bring their modelling of industrial scale systems within the reach of present day computational power Complementing these more specific papers the volume also contains a selection of mathematical methods which can be used in any application domain

ICIAM 91 Robert E. O'Malley, 1992-01-01

Proceedings Computer Arithmetic Algebra OOP **Monte Carlo Simulation of Electron Dynamics in Quantum**

Cascade Lasers Xujiao Gao, 2008 **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

Modelling and Computation for Applications in Mathematics, Science, and Engineering

Joseph W. Jerome, 1998 This book discusses many of the connections between cutting edge applications and advanced numerical and algorithmic techniques Topics include models for long range molecular forces biological and chemical contamination including hierarchical problem solving ideas from computer science discrete mathematics including

connections to the buckyball structure of carbon 60 dimension reduction techniques in incompressible fluid mechanics aspects of charge transport bridging compressible fluids gas dynamics and semiconductors the approximation problem in control theory questions related to weighted approximation by polynomials in the complex plane and high friction limits of hydrodynamic models

Simulation of Semiconductor Devices and Processes, Vol. 5 Siegfried Selberherr,Hannes Stippel,Ernst Strasser,1993

SIAM Journal on Scientific Computing ,2006

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

The RF and Microwave Handbook John Michael Golio,Janet Golio,2008 The growth of wireless technology over the past decade is reflected in this guide It covers WiMAX broadband cable a comprehensive range of other topics This volume RF and Microwave Applications and Systems includes a wide range of articles that discuss RF and microwave systems used for communication and radar and heating applications Commercial avionics medical and military applications are addressed An overview of commercial communications systems is provided Past current and emerging cellular systems navigation systems and satellite based systems are discussed Specific voice and data commercial systems are investigated more thoroughly in individual chapters that follow Detailed discussions of military electronics avionics and radar both military and automotive are provided in separate chapters A chapter focusing on FR microwave energy used for therapeutic medicine is also provided Systems considerations including thermal mechanical reliability power management and safety are discussed in separate chapters Engineering processes are also explored in articles about corporate initiatives cost modeling and design reviews The book closes with a discussion of the underlying physics of electromagnetic propagation and interference In addition to new chapters on WiMAX and broadband cable nearly every existing chapter features extensive updates and several were completely rewritten to reflect the massive changes areas such as radio navigation and electronic warfare

Growth, Processing, and Characterization of Semiconductor Heterostructures: Volume 326 Materials Research Society. Meeting Symposium M.,1994-03-23 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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

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Table of Contents Numerical Simulation Of Submicron Semiconductor Devices

1. Understanding the eBook Numerical Simulation Of Submicron Semiconductor Devices
 - The Rise of Digital Reading Numerical Simulation Of Submicron Semiconductor Devices
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Simulation Of Submicron Semiconductor Devices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Simulation Of Submicron Semiconductor Devices
 - User-Friendly Interface

4. Exploring eBook Recommendations from Numerical Simulation Of Submicron Semiconductor Devices
 - Personalized Recommendations
 - Numerical Simulation Of Submicron Semiconductor Devices User Reviews and Ratings
 - Numerical Simulation Of Submicron Semiconductor Devices and Bestseller Lists
5. Accessing Numerical Simulation Of Submicron Semiconductor Devices Free and Paid eBooks
 - Numerical Simulation Of Submicron Semiconductor Devices Public Domain eBooks
 - Numerical Simulation Of Submicron Semiconductor Devices eBook Subscription Services
 - Numerical Simulation Of Submicron Semiconductor Devices Budget-Friendly Options
6. Navigating Numerical Simulation Of Submicron Semiconductor Devices eBook Formats
 - ePUB, PDF, MOBI, and More
 - Numerical Simulation Of Submicron Semiconductor Devices Compatibility with Devices
 - Numerical Simulation Of Submicron Semiconductor Devices Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Simulation Of Submicron Semiconductor Devices
 - Highlighting and Note-Taking Numerical Simulation Of Submicron Semiconductor Devices
 - Interactive Elements Numerical Simulation Of Submicron Semiconductor Devices
8. Staying Engaged with Numerical Simulation Of Submicron Semiconductor Devices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Simulation Of Submicron Semiconductor Devices
9. Balancing eBooks and Physical Books Numerical Simulation Of Submicron Semiconductor Devices
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Simulation Of Submicron Semiconductor Devices
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Numerical Simulation Of Submicron Semiconductor Devices
 - Setting Reading Goals Numerical Simulation Of Submicron Semiconductor Devices
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Numerical Simulation Of Submicron Semiconductor Devices
 - Fact-Checking eBook Content of Numerical Simulation Of Submicron Semiconductor Devices
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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