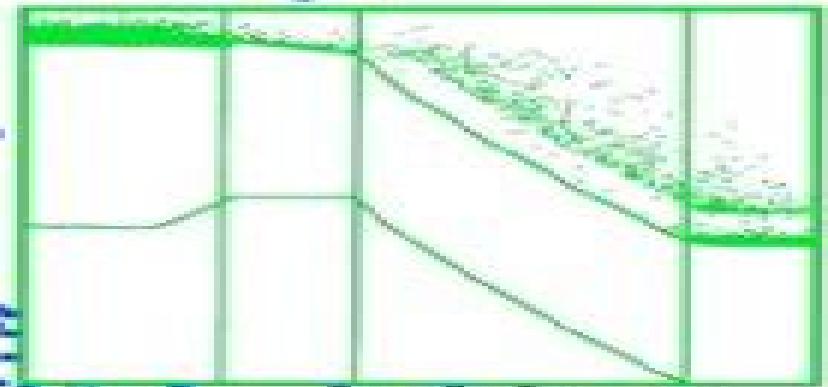


# NUMERICAL SIMULATION OF SUBMICRON SEMICONDUCTOR DEVICES



KAZUTAKA TOMIZAWA

# **Numerical Simulation Of Submicron Semiconductor Devices Artech House Materials Science Library**

**Kazutaka Tomizawa**



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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

Computational Electronics Dragica Vasileska,Stephen Goodnick,2022-06-01 Computational Electronics is devoted to state of the art numerical techniques and physical models used in the simulation of semiconductor devices from a semi classical perspective Computational electronics as a part of the general Technology Computer Aided Design TCAD field has become increasingly important as the cost of semiconductor manufacturing has grown exponentially with a concurrent need to reduce the time from design to manufacture The motivation for this volume is the need within the modeling and simulation community for a comprehensive text which spans basic drift diffusion modeling through energy balance and hydrodynamic models and finally particle based simulation One unique feature of this book is a specific focus on numerical examples particularly the use of commercially available software in the TCAD community The concept for this book originated from a first year graduate course on computational electronics taught now for several years in the Electrical Engineering Department at Arizona State University Numerous exercises and projects were derived from this course and have been included The prerequisite knowledge is a fundamental understanding of basic semiconductor physics the physical models for various device technologies such as pndiodes bipolar junction transistors and field effect transistors

**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

*Introduction to the Physics of Electron Emission* Kevin L. Jensen, 2017-09-27 A practical in depth description of the physics behind electron emission physics and its usage in science and technology Electron emission is both a fundamental phenomenon and an enabling component that lies at the very heart of modern science and technology Written by a recognized authority in the field with expertise in both electron emission physics and electron beam physics An Introduction to Electron Emission provides an in depth look at the physics behind thermal field photo and secondary electron emission mechanisms how that physics affects the beams that result through space charge and emittance growth and explores the physics behind their utilization in an array of applications The book addresses mathematical and numerical methods underlying electron emission describing where the equations originated how they are related and how they may be correctly used to model actual sources for devices using electron beams Writing for the beam physics and solid state communities the author explores applications of electron emission methodology to solid state statistical and quantum mechanical ideas and concepts related to simulations of electron beams to condensed matter solid state and fabrication communities Provides an extensive description of the physics behind four electron emission mechanisms field photo and secondary and how that physics relates to factors such as space charge and emittance that affect electron beams Introduces readers to mathematical and numerical methods their origins and how they may be correctly used to model actual sources for devices using electron beams Demonstrates applications of electron methodology as well as quantum mechanical concepts related to simulations of electron beams to solid state design and manufacture Designed to function as both a graduate level text and a reference for research professionals Introduction to the Physics of Electron Emission is a valuable learning tool for postgraduates studying quantum mechanics statistical mechanics solid state physics electron transport and beam physics It is also an indispensable resource for academic researchers and professionals who use electron sources model electron emission develop cathode technologies or utilize electron beams

**Simulation of Semiconductor Devices and Processes** Siegfried Selberherr, Hannes Stippel, Ernst Strasser, 2012-12-06 The Fifth International Conference on Simulation of Semiconductor Devices and Processes SISDEP 93 continues a series of conferences which was initiated in 1984 by K Board and D R J Owen at the University College of Wales Swansea where it took place a second time in 1986 Its organization was succeeded by G Baccarani and M Rudan at the University of Bologna in 1988 and W Fichtner and D Aemmer at the Federal Institute of Technology in Zurich in 1991 This year the conference is held at the Technical University of Vienna Austria September 7 9 1993 This conference shall provide an international forum for the presentation of out standing research and development results in the area of numerical process and device simulation The miniaturization of today s semiconductor devices the usage of new materials and advanced process steps in the development of new semiconductor technologies suggests the design of new computer programs This trend towards more complex structures and increasingly sophisticated processes demands advanced simulators such as fully three dimensional tools for almost arbitrarily complicated geometries With the increasing need for better models and improved understanding of physical effects the Conference on Simulation of Semiconductor Devices and Processes brings together the simulation community and the process and device engineers who need reliable numerical simulation tools for characterization prediction and development

**The Physics of Submicron Semiconductor Devices** Harold L. Grubin, David K. Ferry, C. Jacoboni, 2013-11-11 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 NONSTATIONARY 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

**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 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

**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

*Handbook of Nanostructured Materials and Nanotechnology, Five-Volume Set* Hari Singh Nalwa,1999-10-29 Nanostructured materials is one of the hottest and fastest growing areas in today s materials science field along with the related field of solid state physics Nanostructured materials and their based technologies have opened up exciting new possibilites for future applications in a number of areas including aerospace automotive x ray technology batteries sensors color imaging printing computer chips medical implants pharmacy and cosmetics The ability to change properties on the atomic level promises a revolution in many realms of science and technology Thus this book details the high level of activity and significant findings are available for those involved in research and development in the field It also covers industrial findings and corporate support This five volume set summarizes fundamentals of nano science in a comprehensive way The contributors enlisted by the editor are at elite institutions worldwide Key Features Provides comprehensive coverage of the dominant technology of the 21st century Written by 127 authors from 16 countries making this truly international First and only reference to cover all aspects of nanostructured materials and nanotechnology

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**The British National Bibliography** Arthur James Wells,1994

Subject Guide to Books in Print ,1993

**Bulletin signalétique des télécommunications** ,1994-07

**Distributed Power Amplifiers for RF and Microwave Communications** Narendra Kumar,Andrei Grebennikov,2015-06-01 This new resource presents readers with all relevant information and comprehensive design methodology of wideband amplifiers This book specifically focuses on distributed amplifiers and their main components and presents numerous RF and microwave applications including well known historical and recent architectures theoretical approaches circuit simulation and practical implementation techniques A great resource for practicing designers and engineers this book contains numerous well known and novel practical circuits architectures and theoretical approaches with detailed description of their operational principles

*Compound Semiconductor Device Physics* Sandip Tiwari,2013-10-22 This book provides one of the most rigorous treatments of compound semiconductor device physics yet published A complete understanding of modern devices requires a working knowledge of low dimensional physics the use of statistical methods and the use of one two and three dimensional analytical and numerical analysis techniques With its systematic and detailed discussion of these topics this book is ideal for both the researcher and the student Although the emphasis of this text is on compound semiconductor devices many of the principles discussed will also be useful to those interested in silicon devices Each chapter ends with exercises that have been designed to reinforce concepts to complement arguments or derivations and to emphasize the nature of approximations by critically evaluating realistic conditions One of the most rigorous treatments of compound semiconductor device physics yet published Essential reading for a complete understanding of modern devices Includes chapter ending exercises to facilitate understanding

*Photonic Crystals* John D. Joannopoulos, Steven G. Johnson, Joshua N. Winn, Robert D. Meade, 2011-10-30 Since it was first published in 1995 *Photonic Crystals* has remained the definitive text for both undergraduates and researchers on photonic band gap materials and their use in controlling the propagation of light This newly expanded and revised edition covers the latest developments in the field providing the most up to date concise and comprehensive book available on these novel materials and their applications Starting from Maxwell's equations and Fourier analysis the authors develop the theoretical tools of photonics using principles of linear algebra and symmetry emphasizing analogies with traditional solid state physics and quantum theory They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces from one to three dimensions This new edition includes entirely new chapters describing important hybrid structures that use band gaps or periodicity only in some directions periodic waveguides photonic crystal slabs and photonic crystal fibers The authors demonstrate how the capabilities of photonic crystals to localize light can be put to work in devices such as filters and splitters A new appendix provides an overview of computational methods for electromagnetism Existing chapters have been considerably updated and expanded to include many new three dimensional photonic crystals an extensive tutorial on device design using temporal coupled mode theory discussions of diffraction and refraction at crystal interfaces and more Richly illustrated and accessibly written *Photonic Crystals* is an indispensable resource for students and researchers Extensively revised and expanded Features improved graphics throughout Includes new chapters on photonic crystal fibers and combined index and band gap guiding Provides an introduction to coupled mode theory as a powerful tool for device design Covers many new topics including omnidirectional reflection anomalous refraction and diffraction computational photonics and much more

*Nanowire Field-Effect Transistor (FET)*. Antonio García-Loureiro, Karol Kalna, Natalia Seoane, 2021 In the last few years the leading semiconductor industries have introduced multi gate non planar transistors into their core business These are being applied in memories and in logical integrated circuits to achieve better integration on the chip increased performance and reduced energy consumption Intense research is underway to develop these devices further and to address their limitations in order to continue transistor scaling while further improving performance This Special Issue looks at recent developments in the field of nanowire field effect transistors NW FETs covering different aspects of the technology physics and modelling of these nanoscale devices

**Foundations for Microstrip Circuit Design** Terry C. Edwards, Michael B. Steer, 2016-02-01 Building on the success of the previous three editions *Foundations for Microstrip Circuit Design* offers extensive new updated and revised material based upon the latest research Strongly design oriented this fourth edition provides the reader with a fundamental understanding of this fast expanding field making it a definitive source for professional engineers and researchers and an indispensable reference for senior students in electronic engineering Topics new to this edition microwave substrates multilayer transmission line structures modern EM tools and techniques microstrip and planar transmission line design transmission line theory substrates for planar transmission lines Vias wirebonds 3D integrated interposer structures computer aided design microstrip and power dependent effects circuit models microwave network analysis microstrip passive elements and slotline design fundamentals

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