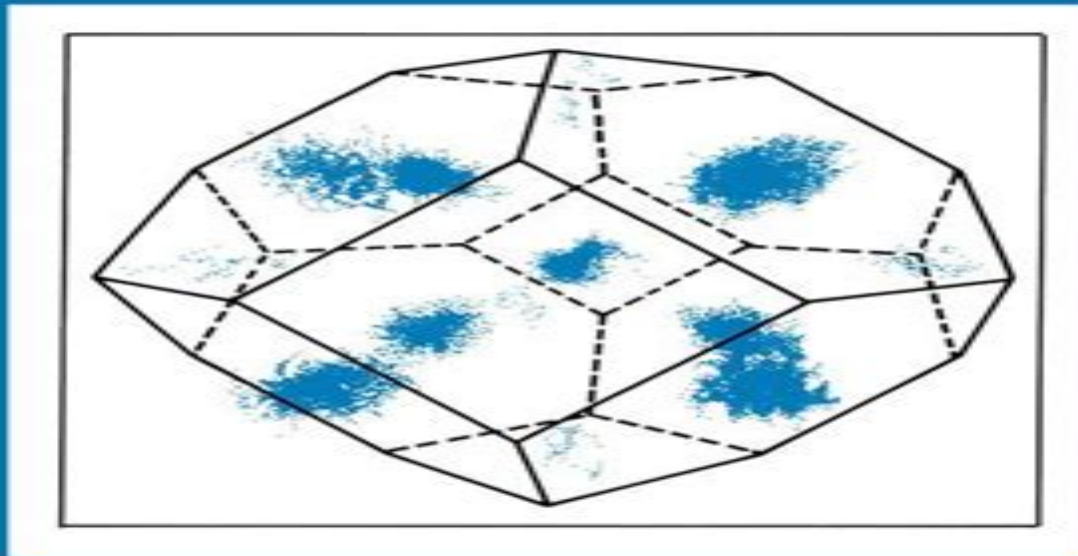


# Monte Carlo Simulation of Semiconductor Devices



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# The Monte Carlo Method For Semiconductor Device Simulation Computational Microelectronics

**Massimo V. Fischetti, William G.  
Vandenberghe**



## **The Monte Carlo Method For Semiconductor Device Simulation Computational Microelectronics:**

**The Monte Carlo Method for Semiconductor Device Simulation** Carlo Jacoboni, Paolo Lugli, 1989-10-30 This volume presents the application of the Monte Carlo method to the simulation of semiconductor devices reviewing the physics of transport in semiconductors followed by an introduction to the physics of semiconductor devices [The Monte Carlo Method for Semiconductor Device Simulation](#) Carlo Jacoboni, Paolo Lugli, 2012-12-06 The application of the Monte Carlo method to the simulation of semiconductor devices is presented A review of the physics of transport in semiconductors is given followed by an introduction to the physics of semiconductor devices The Monte Carlo algorithm is discussed in great details and specific applications to the modelling of semiconductor devices are given A comparison with traditional simulators is also presented [Hierarchical Device Simulation](#) Christoph Jungemann, Bernd Meinerzhagen, 2003-06-05 This monograph is the first on physics based simulations of novel strained Si and SiGe devices It provides an in depth description of the full band monte carlo method for SiGe and discusses the common theoretical background of the drift diffusion hydrodynamic and Monte Carlo models and their synergy **Physics of Semiconductor Devices** Massimo Rudan, 2017-09-27 This textbook 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 physical concepts while keeping the internal coherence of the analysis and explaining the different levels of approximation Coverage includes the main steps used in the fabrication process of integrated circuits diffusion thermal oxidation epitaxy and ion implantation 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 CMOS including a number of solid state sensors The final chapters are devoted to the measuring methods for semiconductor device parameters and to a brief illustration of the scaling rules and numerical methods applied to the design of semiconductor devices *Handbook of Optoelectronic Device Modeling and Simulation* Joachim Piprek, 2017-10-10 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal

starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field

**Physics of Semiconductor Devices** K. N. Bhat, A. Dasgupta, 2004 Contributed papers of the workshop held at IIT Madras in 2003 *Theory and Simulation Methods for Electronic and Phononic Transport in Thermoelectric Materials* Neophytos Neophytou, 2020-03-16 This book introduces readers to state of the art theoretical and simulation techniques for determining transport in complex band structure materials and nanostructured geometry materials linking the techniques developed by the electronic transport community to the materials science community Starting from the semi classical Boltzmann Transport Equation method for complex band structure materials then moving on to Monte Carlo and fully quantum mechanical models for nanostructured materials the book addresses the theory and computational complexities of each method as well as their advantages and capabilities Presented in language that is accessible to junior computational scientists while including enough detail and depth with regards to numerical implementation to tackle modern research problems it offers a valuable resource for computational scientists and postgraduate researchers whose work involves the theory and simulation of electro thermal transport in advanced materials

**Advanced Physics of Electron Transport in Semiconductors and Nanostructures** Massimo V. Fischetti, William G. Vandenberghe, 2016-05-20 This textbook is aimed at second year graduate students in Physics Electrical Engineering or Materials Science It presents a rigorous introduction to electronic transport in solids especially at the nanometer scale Understanding electronic transport in solids requires some basic knowledge of Hamiltonian Classical Mechanics Quantum Mechanics Condensed Matter Theory and Statistical Mechanics Hence this book discusses those sub topics which are required to deal with electronic transport in a single self contained course This will be useful for students who intend to work in academia or the nano micro electronics industry Further topics covered include the theory of energy bands in crystals of second quantization and elementary excitations in solids of the dielectric properties of semiconductors with an emphasis on dielectric screening and coupled interfacial modes of electron scattering with phonons plasmons electrons and photons of the derivation of transport equations in semiconductors and semiconductor nanostructures somewhat at the quantum level but mainly at the semi classical level The text presents examples relevant to current research thus not only about Si but also about III V compound semiconductors nanowires graphene and graphene nanoribbons In particular the text gives major emphasis to plane wave methods applied to the electronic structure of solids both DFT and empirical pseudopotentials always paying attention to their effects on electronic transport and its numerical treatment The core of the text is electronic transport with ample discussions of the transport equations derived both in the quantum picture the Liouville von Neumann equation and semi classically the Boltzmann transport equation BTE An advanced chapter Chapter 18 is strictly related to the tricky transition from the time reversible Liouville von Neumann equation to the time irreversible Green s functions to the density matrix formalism and classically to the Boltzmann transport equation Finally several methods for solving the BTE are also reviewed

including the method of moments iterative methods direct matrix inversion Cellular Automata and Monte Carlo Four appendices complete the text

**Semiconductor Equations** Peter A. Markowich, Christian A. Ringhofer, Christian Schmeiser, 2012-12-06 In recent years the mathematical modeling of charge transport in semi conductors has become a thriving area in applied mathematics The drift diffusion equations which constitute the most popular model for the simulation of the electrical behavior of semiconductor devices are by now mathematically quite well understood As a consequence numerical methods have been developed which allow for reasonably efficient computer simulations in many cases of practical relevance Nowadays research on the drift diffusion model is of a highly specialized nature It concentrates on the exploration of possibly more efficient discretization methods e g mixed finite elements streamline diffusion on the improvement of the performance of nonlinear iteration and linear equation solvers and on three dimensional applications The ongoing miniaturization of semiconductor devices has prompted a shift of the focus of the modeling research lately since the drift diffusion model does not account well for charge transport in ultra integrated devices Extensions of the drift diffusion model so called hydrodynamic models are under investigation for the modeling of hot electron effects in submicron MOS transistors and supercomputer technology has made it possible to employ kinetic models semiclassical Boltzmann Poisson and Wigner Poisson equations for the simulation of certain highly integrated devices

*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

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