

P. Marcati, P.A. Markowich,  
and R. Natalini

# Mathematical Problems in Semiconductor Physics



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# Mathematical Problems In Semiconductor Physics

**P A Marcati, P A Markowich, Roberto  
Natalini**



## **Mathematical Problems In Semiconductor Physics:**

Mathematical Problems in Semiconductor Physics P A Marcati, P A Markowich, Roberto Natalini, 1995-12-15 This collection of papers arises from a workshop held at the Istituto per le Applicazioni del Calcolo of the Italian CNR The first part of the book includes the material covered by three mini series of lectures at graduate level on some advanced mathematical topics in semiconductor physics The second part of the book includes more specialized topics covered by invited speakers in their individual lectures

*Mathematical Problems in Semiconductor Physics* Angelo Marcello Anile, Walter Allegretto, Christian Ringhofer, 2003-12-10 On the the mathematical aspects of the theory of carrier transport in semiconductor devices The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics mathematical theory of drift diffusion equations with applications and the methods of asymptotic analysis

**Mathematical Problems in Semiconductor Physics** Angelo Marcello Anile, Walter Allegretto, Christian Ringhofer, 2014-03-12 On the the mathematical aspects of the theory of carrier transport in semiconductor devices The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics mathematical theory of drift diffusion equations with applications and the methods of asymptotic analysis

**Transport Equations for Semiconductors** Ansgar Jüngel, 2009-04-20 Semiconductor devices are ubiquitous in the modern computer and telecommunications industry A precise knowledge of the transport equations for electron flow in semiconductors when a voltage is applied is therefore of paramount importance for further technological breakthroughs In the present work the author tackles their derivation in a systematic and rigorous way depending on certain key parameters such as the number of free electrons in the device the mean free path of the carriers the device dimensions and the ambient temperature Accordingly a hierarchy of models is examined which is reflected in the structure of the book first the microscopic and macroscopic semi classical approaches followed by their quantum mechanical counterparts

Proceedings, "WASCOM 2003" Roberto Monaco, 2004 This book contains about 20 invited papers and 40 contributed papers in the research areas of theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics Collectively these papers give a good overview of the activities and developments in these fields in the last few years The proceedings have been selected for coverage in OCo Index to Scientific Inverse Problems in Photon Transport Part I Determination of Physical and Geometrical Features of an Interstellar Cloud A Belleni Morante et al Inverse Problems in Photon Transport Part II Features of a Source Inside an Interstellar Cloud A Belleni Morante The Riemann Problem for a Binary Non Reacting Mixture of Euler Fluids F Brini Rate of Convergence toward the Equilibrium in Degenerate Settings L Desvillettes Asymptotic and Other Properties of Positive Definite Integral Measures for Nonlinear Diffusion J N Flavin Thermocapillary Fluid and Adiabatic Waves Near its Critical Point H Gouin Constitutive Models for Atactic Elastomers C O Horgan Considerations about the Gibbs Paradox I Mller Transport Coefficients in Stochastic Models

of the Revised Enskog and Square Well Kinetic Theories J Polewczak Some Recent Mathematical Results in Mixtures Theory of Euler Fluids T Ruggeri From Kinetic Systems to Diffusion Equations F Salvarani Non Boussinesq Convection in Porous Media B Straughan and other papers Readership Researchers academics and graduate students working in the fields of continuum mechanics wave propagation stability in fluids kinetic theory and computational fluid dynamics      **Waves And Stability In Continuous Media - Proceedings Of The 12th Conference On Wascom 2003** Roberto Monaco, Salvatore Rionero, Tommaso Ruggeri, Sebastiano Pennisi, 2004-04-16 This book contains about 20 invited papers and 40 contributed papers in the research areas of theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics Collectively these papers give a good overview of the activities and developments in these fields in the last few years The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences      *Physics of Semiconductor Devices* J.-P. Colinge, C.A. Colinge, 2005-10-03 *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      *Mathematical Reviews* , 2005      **Quasi-hydrodynamic Semiconductor Equations** Ansgar Jüngel, 2011-04-27 In this book a hierarchy of macroscopic models for semiconductor devices is presented Three classes of models are studied in detail isentropic drift diffusion equations energy transport models and quantum hydrodynamic equations The derivation of each of the models is shown including physical discussions Furthermore the corresponding mathematical problems are analyzed using modern techniques for nonlinear partial differential equations The equations are discretized employing mixed finite element methods Also numerical simulations for modern semiconductor devices are performed showing the particular features of the models Modern analytical techniques have been used and further developed such as positive solution methods local energy methods for free boundary problems and entropy methods The book is aimed at applied mathematicians and physicists interested in mathematics as well as graduate and postdoc students and researchers in these fields      *Index of Conference Proceedings* British Library. Document Supply Centre, 1996

**Quasi-hydrodynamic Semiconductor Equations** Ansgar Jüngel, 2001      **Fluctuation Theory for Lévy Processes** Ronald A. Doney, 2007-04-19 Lévy processes i.e processes in continuous time with stationary and independent increments are named after Paul Lévy who made the connection with infinitely divisible distributions and described their structure They form

a flexible class of models which have been applied to the study of storage processes insurance risk queues turbulence laser cooling and of course finance where the feature that they include examples having heavy tails is particularly important Their sample path behaviour poses a variety of difficult and fascinating problems Such problems and also some related distributional problems are addressed in detail in these notes that reflect the content of the course given by R Doney in St Flour in 2005

*Semiconductors* W.M. Jr. Coughran, Julian Cole, Peter Lloyd, Jacob K. White, 1994-05-20 This IMA Volume in Mathematics and its Applications SEMICONDUCTORS PART II is based on the proceedings of the IMA summer program Semiconductors Our goal was to foster interaction in this interdisciplinary field which involves electrical engineers computer scientists semiconductor physicists and mathematicians from both university and industry In particular the program was meant to encourage the participation of numerical and mathematical analysts with backgrounds in ordinary and partial differential equations to help get them involved in the mathematical aspects of semiconductor models and circuits We are grateful to W M Coughran Jr Julian Cole Peter Lloyd and Jacob White for helping Farouk Odeh organize this activity and trust that the proceedings will provide a fitting memorial to Farouk We also take this opportunity to thank those agencies whose financial support made the program possible the Air Force Office of Scientific Research the Army Research Office the National Science Foundation and the Office of Naval Research

A vner Friedman Willard Miller J r Preface to Part II

Semiconductor and integrated circuit modeling are an important part of the high technology chip industry whose high performance low cost microprocessors and high density memory designs form the basis for supercomputers engineering work stations laptop computers and other modern information appliances There are a variety of differential equation problems that must be solved to facilitate such modeling

*Advances in Differential Equations*, 2000 **Sixth Biennial IEEE Nonvolatile Memory Technology Conference** IEEE Computer Society, 1996

*Semiconductor Equations* Peter A. Markowich, Christian A. Ringhofer, Christian Schmeiser, 2012-12-06 In recent years the mathematical modeling of charge transport in semiconductors 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

**Some Mathematical Problems of Semiconductor Devices** C.P. Please, 1978      **Local and Semi-Local**

**Bifurcations in Hamiltonian Dynamical Systems** Heinz Hanßmann, 2007 Once again KAM theory is committed in the context of nearly integrable Hamiltonian systems While elliptic and hyperbolic tori determine the distribution of maximal invariant tori they themselves form  $n$  parameter families Hence without the need for untypical conditions or external parameters torus bifurcations of high co dimension may be found in a single given Hamiltonian system The text moves gradually from the integrable case in which symmetries allow for reduction to bifurcating equilibria to non integrability where smooth parametrisations have to be replaced by Cantor sets Planar singularities and their versal unfoldings are an important ingredient that helps to explain the underlying dynamics in a transparent way

**Gauge Theories as a Problem of Constructive Quantum Field Theory and Statistical Mechanics** Erhard Seiler, 1982      Beyond Partial Differential

Equations Horst Reinhard Beyer, 2007-04-04 The present volume is self contained and introduces to the treatment of linear and nonlinear quasi linear abstract evolution equations by methods from the theory of strongly continuous semigroups The theoretical part is accessible to graduate students with basic knowledge in functional analysis Only some examples require more specialized knowledge from the spectral theory of linear self adjoint operators in Hilbert spaces Particular stress is on equations of the hyperbolic type since considerably less often treated in the literature Also evolution equations from fundamental physics need to be compatible with the theory of special relativity and therefore are of hyperbolic type Throughout detailed applications are given to hyperbolic partial differential equations occurring in problems of current theoretical physics in particular to Hermitian hyperbolic systems This volume is thus also of interest to readers from theoretical physics

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