Progress in Nonlinear Differential Equations and Their Applications

Ansgar Jüngel

Quasi-hydrodynamic Semiconductor Equations

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Eitan Tadmor, Jian-Guo Liu, Athanasios E. Tzavaras

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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 **Some Problems on Nonlinear** Hyperbolic Equations and Applications Yuejun Peng, Bopeng Rao, 2010 This volume is composed of two parts Mathematical and Numerical Analysis for Strongly Nonlinear Plasma Models and Exact Controllability and Observability for Quasilinear Hyperbolic Systems and Applications It presents recent progress and results obtained in the domains related to both subjects without attaching much importance to the details of proofs but rather to difficulties encountered to open problems and possible ways to be exploited It will be very useful for promoting further study on some important problems in Hyperbolic Problems: Theory, Numerics and Applications Eitan Tadmor, Jian-Guo Liu, Athanasios E. the future Tzavaras, 2009 The International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2008 was held at the University of Maryland from June 9 13 2008 This book the first in a two part volume contains nineteen papers based on plenary and invited talks presented at the conference **Dispersive Transport Equations and Multiscale Models** Ben Abdallah Naoufel, Anton Arnold, Pierre Degond, Irene M. Gamba, Robert T. Glassey, C. David Levermore, Christian Ringhofer, 2012-12-06 IMA Volumes 135 Transport in Transition Regimes and 136 Dispersive Transport Equations and Multiscale Models focus on the modeling of processes for which transport is one of the most complicated components This includes processes that involve a wdie range of length scales over different spatio temporal regions of the problem ranging from the order of mean free paths to many times this scale Consequently effective modeling techniques require different transport models in each region The first issue is that of finding efficient simulations techniques since a fully resolved kinetic simulation is often impractical One therefore develops homogenization stochastic or moment based subgrid models Another issue is to quantify the discrepancy between macroscopic models and the underlying kinetic description especially when dispersive effects become macroscopic for example due to quantum effects in semiconductors and superfluids These two volumes address these questions in relation to a wide variety of application areas such as semiconductors plasmas fluids chemically reactive gases etc Partial Differential Equations and Spectral Theory Michael Demuth, Bert-Wolfgang

Schulze, Ingo Witt, 2011-02-01 This volume collects six articles on selected topics at the frontier between partial differential equations and spectral theory written by leading specialists in their respective field. The articles focus on topics that are in the center of attention of current research with original contributions from the authors They are written in a clear expository style that makes them accessible to a broader audience The articles contain a detailed introduction and discuss recent progress provide additional motivation and develop the necessary tools Moreover the authors share their views on future developments hypotheses and unsolved problems **Transport Equations for Semiconductors** Ansgar Jüngel, 2009-03-17 This volume presents a systematic and mathematically accurate description and derivation of transport equations in solid state physics in particular semiconductor devices **Hyperbolic Problems: Theory, Numerics, Applications** Thomas Y. Hou, Eitan Tadmor, 2012-12-06 The International Conference on Hyperbolic Problems Theory Numerics and Applications was held in CalTech on March 25 30 2002 The conference was the ninth meeting in the bi annual international series which became one of the highest quality and most successful conference series in Applied mathematics This volume contains more than 90 contributions presented in this conference including plenary presentations by A Bressan P Degond R LeVeque T P Liu B Perthame C W Shu B Sj green and S Ukai Reflecting the objective of series the contributions in this volume keep the traditional blend of theory numerics and applications The Hyp2002 meeting placed a particular emphasize on fundamental theory and numerical analysis on multi scale analysis modeling and simulations and on geophysical applications and free boundary problems arising from materials science and multi component fluid dynamics The volume should appeal to researchers students and practitioners with general interest in time dependent problems governed by hyperbolic equations

Scientific Computing in Electrical Engineering G. Ciuprina, D. Ioan, 2007-05-30 This book is a collection of selected papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sinaia Romania in 2006 The series of SCEE conferences aims at addressing mathematical problems which have a relevance to industry with an emphasis on modeling and numerical simulation of electronic circuits electromagnetic fields but also coupled problems and general mathematical and computational methods

Applied Analysis: Mathematics For Science, Technology, Engineering (Third Edition) Takashi Suzuki, 2022-04-28 This book is to be a new edition of Applied Analysis Several fundamental materials of applied and theoretical sciences are added which are needed by the current society as well as recent developments in pure and applied mathematics New materials in the basic level are the mathematical modelling using ODEs in applied sciences elements in Riemann geometry in accordance with tensor analysis used in continuum mechanics combining engineering and modern mathematics detailed description of optimization and real analysis used in the recent study of PDEs Those in the advance level are the integration of ODEs inverse Strum Liouville problems interface vanishing of the Maxwell system method of gradient inequality diffusion geometry mathematical oncology Several descriptions on the analysis of Smoluchowski Poisson equation in two space dimension are corrected and extended to ensure quantized blowup mechanism

of this model particularly the residual vanishing both in blowup solution in finite time with possible collision of sub collapses and blowup solutions in infinite time without it Physics Of Semiconductors, The - Proceedings Of The Xxi International Conference (In 2 Volumes) Ping Jiang, Hou-zhi Zheng, 1993-03-31 The 21st conference proceedings continue the tradition of the ICPS series The proceedings cover all aspects of semiconductor physics including those related to materials processing and devices Plenary and invited speakers address areas of major interest Dynamics in Models of Coarsening, Coagulation, Condensation and Quantization Weizhu Bao, 2007 The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on Nanoscale Material Interfaces Experiment Theory and Simulation from November 2004 to January 2005 As part of the program tutorials for graduate students and junior researchers were given by leading experts in the field This invaluable volume collects the expanded lecture notes of four of those self contained tutorials The topics covered include dynamics in different models of domain coarsening and coagulation and their mathematical analysis in material sciences a mathematical and computational study for quantized vortices in the celebrated GinzburgOCoLandau models of superconductivity and the mean field GrossOCoPitaevskii equations of superfluidity the nonlinear SchrAdinger equation and applications in BoseOCoEinstein condensation and plasma physics as well as their efficient and accurate computation and finally an introduction to constitutive modeling of macromolecular fluids within the framework of the kinetic theory This volume serves to inspire graduate students and researchers who will embark upon original research work in these fields Applied Analysis Takasi Senba, Takashi Suzuki, 2004 This book provides a general introduction to applied mathematics such as mathematical modeling of random motion of particles chemotaxis in biology and their theoretical study Several tools in linear and nonlinear PDE theory and spectral theory of eigenfunction expansion are described The book also presents the fundamental ideas in theoretical and applied analysis and discusses recent developments in nonlinear science Progress in Industrial Mathematics at ECMI 2014 Giovanni Russo, Vincenzo Capasso, Giuseppe Nicosia, Vittorio Romano, 2017-09-04 This book presents a collection of papers emphasizing applications of mathematical models and methods to real world problems of relevance for industry life science environment finance and so on The biannual Conference of ECMI the European Consortium of Mathematics in Industry held in 2014 focused on various aspects of industrial and applied mathematics The five main topics addressed at the conference were mathematical models in life science material science and semiconductors mathematical methods in the environment design automation and industrial applications and computational finance Several other topics have been treated such as among others optimization and inverse problems education numerical methods for stiff pdes model reduction imaging processing multi physics simulation mathematical models in textile industry The conference which brought together applied mathematicians and experts from industry provided a unique opportunity to exchange ideas problems and methodologies bridging the gap between mathematics and industry and contributing to the advancement of science and technology The conference has included a

presentation of EU Maths In European Network of Mathematics for Industry and Innovation a recent joint initiative of ECMI and EMS The proceedings from this conference represent a snapshot of the current activity in industrial mathematics in Europe and are highly relevant to anybody interested in the latest applications of mathematics to industrial problems

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 Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Waves And Stability In Continuous Media - Proceedings Of The 12th Conference On Wascom 2003 Sciences 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 Numerical Methods in Electromagnetics W.H.A. SCHILDERS, E.J.W. TER MATEN.2005-04-04 This special volume provides a broad overview and insight in the way numerical methods are being used to solve the wide variety of problems in the electronics industry Furthermore its aim is to give researchers from other fields of application the opportunity to benefit from the results wich have been obtained in the electronics industry Complete survey of numerical methods used in the electronic industry Each chapter is selfcontained Presents state of the art applications and methods Internationally recognised authors More Progresses in Analysis Heinrich G. W. Begehr, Francesco Nicolosi, 2009 International ISAAC International Society for Analysis its Applications and Computation Congresses have been held every second year since 1997 The proceedings report on a regular basis on the progresses of the field in recent years where the most active areas in analysis its applications and computation are covered Plenary lectures also highlight recent results This volume concentrates mainly on partial differential equations but also includes function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations stochastic analysis inverse problems homogenization continuum mechanics mathematical biology and medicine With over 350 participants attending the congress the book comprises 140 papers from 211 authors. The volume also serves for transferring personal information about the ISAAC and its members This volume includes citations for O Besov V Burenkov and R P Gilbert on the occasion of their anniversaries More Progresses In Analysis - Proceedings Of The 5th International Isaac Congress Heinrich G W Begehr, Francesco Nicolosi, 2009-05-12 International ISAAC International Society for Analysis

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