

Progress in Nonlinear Differential Equations
and Their Applications

Ansgar Jüngel

Quasi-hydrodynamic Semiconductor Equations

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Quasi Hydrodynamic Semiconductor Equatio

Guillaume Favre



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Quasi-hydrodynamic Semiconductor Equations Ansgar Jüngel, 2001-02-01 This book presents a hierarchy of macroscopic models for semiconductor devices studying three classes of models in detail isentropic drift diffusion equations energy transport models and quantum hydrodynamic equations The derivation of each including physical discussions is shown Numerical simulations for modern semiconductor devices are performed showing the particular features of each The author develops modern analytical techniques such as positive solution methods local energy methods for free boundary problems and entropy methods

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

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 wide 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

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 Sturm 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

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

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 Ginzburg-OCoLandau models of superconductivity and the mean field Gross-OCoPitaevskii equations of superfluidity the nonlinear Schrödinger equation and applications in Bose-OCoEinstein 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

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 the future

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

Sciences 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 *More Progresses in Analysis*, 2009-05-12 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 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 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 *Travelling Waves in Nonlinear Diffusion-Convection Reaction* Brian H. Gilding, Robert Kersner, 2012-12-06 This monograph has grown out of research we started in 1987 although the foundations were laid in the 1970s when both of us were working on our doctoral theses trying to generalize the now classic paper of Oleinik Kalashnikov and Chzhou on nonlinear degenerate diffusion Brian worked under the guidance of Bert Peletier at the University of Sussex in Brighton England and later at Delft University of Technology in the Netherlands on extending the earlier mathematics to include nonlinear convection while Robert worked at Lomonosov State University in Moscow under the supervision of Anatolii Kalashnikov on generalizing the earlier mathematics to include nonlinear absorption We first met at a conference held in Rome in 1985 In 1987 we met again in Madrid at the invitation of Ildefonso Diaz where we were both staying at La Residencia As providence would have it the University Complutense closed down during this visit in response to student demonstrations and we were very much left to our own devices It was natural that we should gravitate to a research topic of common interest This turned out to be the characterization of the phenomenon of finite speed of propagation for nonlinear reaction convection diffusion equations Brian had just completed some work on this topic for nonlinear diffusion convection while Robert had earlier done the same for nonlinear diffusion absorption There was no question but that we bundle our efforts on the general situation **Nonlinear Elliptic and Parabolic Problems** Michel Chipot, 2005-10-18 The present volume is dedicated to celebrate the work of the renowned mathematician Herbert Amann who had a significant and decisive influence in shaping Nonlinear Analysis Most articles published in this book which consists of 32 articles in total written by highly distinguished researchers are in one way or another related to the scientific works of Herbert Amann The contributions cover a wide range of nonlinear elliptic and parabolic equations with applications to natural sciences and engineering Special topics are fluid dynamics reaction diffusion systems bifurcation theory maximal regularity evolution equations and the theory of function spaces **Variational Problems in Riemannian Geometry** Paul Baird, Ahmad El Soufi, Ali Fardoun, Rachid Regbaoui, 2012-12-06 This book collects invited contributions by specialists in the domain of elliptic partial differential equations and geometric flows There are introductory survey articles as well as papers presenting the latest research results Among the topics covered are blow up theory for second order elliptic equations bubbling phenomena in the harmonic map heat flow applications of scans and fractional power integrands heat flow for the p energy functional Ricci flow and evolution by curvature of networks of curves in the plane

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