MATHEMATICAL TOPICS IN NONLINEAR KINETIC THEORY

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Ingo Claben,Hartmut Ehrig,A Romano,Dietmar Wolz

Mathematical Topics In Nonlinear Kinetic Theory:

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Konaté,2007-12-08 This book features articles written by some of the most prominent leading applied mathematicians as well as young and promising ones The common objective of these articles is to present an important issue which is currently widely discussed in scientific investigation with major human economic or ecological implications Each article is as deep as an expert lecture but is also self contained so that even isolated scientists with limited resources can profit greatly from it

Motor Vehicle Dynamics: Modelling And Simulation Giancarlo Genta,1997-04-19 The book starts with an historical overview of road vehicles The first part deals with the forces exchanged between the vehicle and the road and the vehicle and the air with the aim of supplying the physical facts and the relevant mathematical models about the forces which dominate the dynamics of the vehicle The second part deals with the dynamic behaviour of the vehicle in normal driving conditions with some extensions towards conditions encountered in high speed racing driving **Applications Of Pade' Approximation Theory In Fluid Dynamics** Amilcare Pozzi,1994-03-07 Although Pad presented his fundamental paper at the end of the last century the studies on Pad s approximants only became significant in the second part of this century Pad procedure is related to the theory of continued fractions and some convergence theorems can be expressed only in terms of continued fractions Further Pad approximants have some advantages of practical applicability with respect to the continued fraction theory Moreover as Chisholm notes a given power series determines a set of approximants which are usually unique whereas there are many ways of writing an associated continued fraction The principal advantage of Pad approximants with respect to the generating Taylor series is that they provide an extension beyond the interval of convergence of the series Pad approximants can be applied in many parts of fluid dynamics both in steady and in nonsteady flows both in incompressible and in compressible regimes This book is divided into four parts The first one deals with the properties of the Pad approximants that are useful for the applications and illustrates with the aid of diagrams and tables the effectiveness of this technique in the field of applied mathematics The second part recalls the basic equations of fluid dynamics those associated with the names of Navier Stokes Euler and Prandtl and gives a quick derivation of them from the general balance equation The third shows eight examples of the application of Pad approximants to steady flows also taking into account the influence of the coupling of heat conduction in the body along which a fluid flows with conduction and convection in the fluid itself The fourth part considers two examples of the application of Pad approximants to unsteady flows *Thermomechanics Of Phase Transitions In Classical Field Theory* Ingo Claben,Hartmut Ehrig,A Romano,Dietmar Wolz,1993-11-30 The complex processes of state changes can be interpreted by resorting to Statistical Quantum Mechanics However it is well known that a phenomenological description of state changes can be obtained by using the classical continuum theory This book supplies a panoramic picture of known and new mathematical models which are suitable to describe phase changes from a macroscopic view point All these models are derived from the theory of continuous systems with a nonmaterial interface and allow to describe processes of solidification melting and vaporization The nonlocal continuum theory of systems with a non material

interface provides a more complex mathematical model in dealing with crystal growth either in a pure melt or in a mixture A chapter is devoted to the analysis of phase changes in ferroelectric and ferromagnetic crystals **Multigroup Equations for the Description of the Particle Transport in Semiconductors** Martin Galler,2005 Deterministic simulation of the particle transport in semiconductor devices is an interesting alternative to the common Monte Carlo approach In this book a state of the art technique called the multigroup approach is presented and applied to a variety of transport problems in bulk semiconductors and semiconductor devices High field effects as well as hot phonon phenomena in polar semiconductors are studied in detail The mathematical properties of the presented numerical method are studied and the method is applied to simulating the transport of a two dimensional electron gas formed at a semiconductor heterostructure Concerning semiconductor device simulation several diodes and transistors fabricated of silicon and gallium arsenide are investigated For all of these simulations the numerical techniques employed are discussed in detail This unique study of the application of direct methods for semiconductor device simulation provides the interested reader with an indispensable reference on this growing research area A Theory Of Latticed Plates And Shells G I Pshenichnov,1993-03-17 The book presents the theory of latticed shells as continual systems and describes its applications It analyses the problems of statics stability and dynamics Generally a classical rod deformation theory is applied However in some instances more precise theories which particularly consider geometrical and physical nonlinearity are employed A new effective method for solving general boundary value problems and its application for numerical and analytical solutions of mathematical physics and reticulated shell theory problems is described A new method of solving the shell theory s nonlinear problems substantially simplifying the existing algorithms is given Questions of optimum design are discussed Some of the findings are generalized and extended to edged and composite systems The results of the solutions of a wide range of pressing problems are presented **Advances in Kinetic Theory and Computing** B. Perthame,1994 This selection of 8 papers discusses Equations of Kinetic Physics with emphasis on analysis modelling and computing The first 3 papers are on numerical methods for Vlasov Poisson and Vlasov Maxwell Equations Comparison between Particles and Eulerian Methods G Manfredi and M R Feix Computing BGK Instability with Eulerian Codes M R Feix Pertrand A Ghieco and Coupling Particles and Eulerian Methods S Mas Gallic and P A Raviart Followed by a survey of kinetic and macroscopic models for semiconductor devices Boltzmann Equation Drift Diffusion Models F Poupaud In addition there are 2 papers on the modelling and analysis of singular perturbation problems arising in plasma physics Derivation of the Child Lagmuyr Emission Laws P Degond and Euler Models with Small Pressure Terms F Bouchut followed by two papers on the analysis and numerical analysis of the Boltzmann equations Symmetry Properties in the Polynomials Arising in Chapman Enskog Expansion L Desvillettes and F Golse and A General Introduction to Computing the Boltzmann Equations with Random Particle Methods B Perthame *Mathematical Oncology 2013* Alberto d'Onofrio,Alberto Gandolfi,2014-10-16 With chapters on free boundaries constitutive equations stochastic dynamics nonlinear

diffusion consumption structured populations and applications of optimal control theory this volume presents the most significant recent results in the field of mathematical oncology It highlights the work of world class research teams and explores how different researchers approach the same problem in various ways Tumors are complex entities that present numerous challenges to the mathematical modeler First and foremost they grow Thus their spatial mean field description involves a free boundary problem Second their interiors should be modeled as nontrivial porous media using constitutive equations Third at the end of anti cancer therapy a small number of malignant cells remain making the post treatment dynamics inherently stochastic Fourth the growth parameters of macroscopic tumors are non constant as are the parameters of anti tumor therapies Changes in these parameters may induce phenomena that are mathematically equivalent to phase transitions Fifth tumor vascular growth is random and self similar Finally the drugs used in chemotherapy diffuse and are taken up by the cells in nonlinear ways Mathematical Oncology 2013 will appeal to graduate students and researchers in biomathematics computational and theoretical biology biophysics and bioengineering *Homogenization* Sergei M. Kozlov,Viktor L?vovich Berdichevski?,Vasili? Vasil?evich Zhikov,George Papanicolaou,1999 This is a memorial volume in honor of Serguei Kozlov one of the founders of homogenization a new branch of mathematical physics This volume contains original contributions of leading world experts in the field Impulsive Differential Equations with a Small Parameter Dimit?r Ba?nov,Val□ry Covachev,1994 This book is devoted to impulsive differential equations with a small parameter It consists of three chapters Chapter One serves as an introduction In Chapter Two regularly perturbed impulsive differential equations are considered Modifications of the method of small parameter the averaging method and the method of integral manifolds are proposed In Chapter Three singularly perturbed differential equations are considered A modification of the method of boundary functions is proposed and asymptotic expansions along the powers of the small parameters of the solutions of the initial value problem the periodic problem and some boundary value problems are found Numerous nonstandard applications to the theory of optimal control are made The application of some other methods to impulsive singularly perturbed equations is illustrated such as the numerical analytical method for finding periodic solutions the method of differential inequalities and the averaging method The book is written clearly strictly and understandably It is intended for mathematicians physicists chemists biologists and economists as well as for senior students of these specialities

On the Way to Understanding the Time Phenomenon A. P. Levich,1995 The subject of this book is time one of the small number of elusive essences of the world unsubdued by human will The three global problems of natural science those of the origin of the Universe life and consciousness cannot be solved without finding out the nature of time Without a good construction of time it is impossible to describe to qualify to forecast and to control various processes in the animate and inanimate nature Special attention is paid to the ways of adequate inclusion of the properties of time in the derivation of the fundamental equations of motion for natural systems

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