SINGULARLY PERTURBED EVOLUTION EQUATIONS WITH APPLICATIONS TO KINETIC THEORY

Singularly Perturbed Evolution Equations With Applications To Kinetic Theory

Jacek Banasiak,Mirosław Lachowicz

Singularly Perturbed Evolution Equations With Applications To Kinetic Theory:

   Singularly Perturbed Evolution Equations with Applications to Kinetic Theory J. R. Mika,J. Banasiak,1995 In recent years there appeared a large number of papers as well as chapters in more general monographs devoted to evolution equations containing small or large parameters In this book it is intended to gather the existing results as well as to introduce new ones on the field of initial value problems for singularly perturbed evolution equations of the resonance type Such equations are of great interest in the applied sciences particularly in the kinetic theory which is chosen as the main field of application for the asymptotic theory developed in the monograph   **Singularly Perturbed Evolution Equations with Applications to Kinetic Theory** Jan M. Kozakiewicz,2005   Evolution Equations And Approximations Kazufumi Ito,Franz Kappel,2002-05-24 This book presents an approximation theory for a general class of nonlinear evolution equations in Banach spaces and the semigroup theory including the linear Hille Yosida nonlinear Crandall Liggett and time dependent Crandall Pazy theorems The implicit finite difference method of Euler is shown to generate a sequence convergent to the unique integral solution of evolution equations of the maximal monotone type Moreover the Chernoff theory provides a sufficient condition for consistent and stable time integration of time dependent nonlinear equations The Trotter Kato theorem and the Lie Trotter type product formula give a mathematical framework for the convergence analysis of numerical approximations of solutions to a general class of partial differential equations This book contains examples demonstrating the applicability of the generation as well as the approximation theory In addition the Kobayashi Oharu approach of locally quasi dissipative operators is discussed for homogeneous as well as nonhomogeneous equations Applications to the delay differential equations Navier Stokes equation and scalar conservation equation are given   Methods of Small Parameter in Mathematical Biology Jacek Banasiak,Mirosław Lachowicz,2014-04-19 This monograph presents new tools for modeling multiscale biological processes Natural processes are usually driven by mechanisms widely differing from each other in the time or space scale at which they operate and thus should be described by appropriate multiscale models However looking at all such scales simultaneously is often infeasible costly and provides information that is redundant for a particular application Hence there has been a growing interest in providing a more focused description of multiscale processes by aggregating variables in a way that is relevant to the purpose at hand and preserves the salient features of the dynamics Many ad hoc methods have been devised and the aim of this book is to present a systematic way of deriving the so called limit equations for such aggregated variables and ensuring that the coefficients of these equations encapsulate the relevant information from the discarded levels of description Since any approximation is only valid if an estimate of the incurred error is available the tools the authors describe allow for proving that the solutions to the original multiscale family of equations converge to the solution of the limit equation if the relevant parameter converges to its critical value The chapters are arranged according to the mathematical complexity of the analysis from systems of ordinary linear differential equations through nonlinear ordinary

differential equations to linear and nonlinear partial differential equations Many chapters begin with a survey of mathematical techniques needed for the analysis All problems discussed in this book belong to the class of singularly perturbed problems that is problems in which the structure of the limit equation is significantly different from that of the multiscale model Such problems appear in all areas of science and can be attacked using many techniques Methods of Small Parameter in Mathematical Biology will appeal to senior undergraduate and graduate students in applied and biomathematics as well as researchers specializing in differential equations and asymptotic analysis **Differential Equations, Bifurcations And Chaos In Economics** Wei-bin Zhang,2005-07-18 Although the application of differential equations to economics is a vast and vibrant area the subject has not been systematically studied it is often treated as a subsidiary part of mathematical economics textbooks This book aims to fill that void by providing a unique blend of the theory of differential equations and their exciting applications to dynamic economics Containing not just a comprehensive introduction to the applications of the theory of linear and linearized differential equations to economic analysis the book also studies nonlinear dynamical systems which have only been widely applied to economic analysis in recent years It provides comprehensive coverage of the most important concepts and theorems in the theory of differential equations in a way that can be understood by any reader who has a basic knowledge of calculus and linear algebra In addition to traditional applications of the theory to economic dynamics the book includes many recent developments in different fields of economics **Dissipative Phase Transitions** Pierluigi Colli,Nobuyuki Kenmochi,J. Sprekels,2006 Phase transition phenomena arise in a variety of relevant real world situations such as melting and freezing in a solid liquid system evaporation solid solid phase transitions in shape memory alloys combustion crystal growth damage in elastic materials glass formation phase transitions in polymers and plasticity The practical interest of such phenomenology is evident and has deeply influenced the technological development of our society stimulating intense mathematical research in this area This book analyzes and approximates some models and related partial differential equation problems that involve phase transitions in different contexts and include dissipation effects Contents Mathematical Models Including a Hysteresis Operator T Aiki Modelling Phase Transitions via an Entropy Equation Long Time Behavior of the Solutions E Bonetti Global Solution to a One Dimensional Phase Transition Model with Strong Dissipation G Bonfanti A Global in Time Result for an Integro Differential Parabolic Inverse Problem in the Space of Bounded Functions F Colombo et al Weak Solutions for Stefan Problems with Convections T Fukao Memory Relaxation of the One Dimensional CahnOCoHilliard Equation S Gatti et al Mathematical Models for Phase Transition in Materials with Thermal Memory G Gentili Hysteresis in a First Order Hyperbolic Equation J Kopfovi Approximation of Inverse Problems Related to Parabolic Integro Differential Systems of Caginalp Type A Lorenzi Gradient Flow Reaction Diffusion Models in Phase Transitions J Norbury New Existence Result for a 3 D Shape Memory Model I Pawlow Analysis of a 1 D Thermoviscoelastic Model with Temperature Dependent Viscosity R Peyroux Global Attractor for the Weak Solutions of a

Class of Viscous Cahn Hilliard Equations R Rossi Stability for Phase Field Systems Involving Indefinite Surface Tension Coefficients K Shirakawa Geometric Features of p Laplace Phase Transitions E Valdinoci Readership Applied mathematicians and researchers in analysis and differential equations   *Advanced Mathematical & Computational Tools in Metrology VII* P. Ciarlini,2006 This volume collects the refereed contributions based on the presentations made at the Seventh Workshop on Advanced Mathematical and Computational Tools in Metrology a forum for metrologists mathematicians and software engineers that will encourage a more effective synthesis of skills capabilities and resources The volume contains articles by world renowned metrologists and mathematicians involved in measurement science and together with the six previous volumes in this series constitutes an authoritative source of the mathematical statistical and software tools necessary in modern metrology Contents Modeling Measurement Processes in Complex Systems with Partial Differential Equations From Heat Conduction to the Heart M Baer et al Mereotipological Approach for Measurement Software E Benoit Data Evaluation of Key Comparisons Involving Several Artefacts M G Cox et al Box Cox Transformations Versus Robust Control Charts in Statistical Process Control M I Gomes Decision Making Using Sensor s Data Fusion and Kohonen Self Organizing Maps P S Girao et al Generic System Design for Measurement Databases Applied to Calibrations in Vacuum Metrology Bio Signals and a Template System H Gro et al Repeated Measurements Evaluation of Their Uncertainty from the Viewpoints of Classical and Bayesian Statistics I Lira Detection of Outliers in Interlaboratory Testing and Some Thoughts About Multivariate Precision C Perruchet On Appropriate Methods for the Validation of Metrological Software D Richter et al Data Analysis A Dialogue D S Sivia Validation of a Virtual Sensor for Monitoring Ambient Parameters P Ciarlini et al Evaluation of Standard Uncertainties in Nested Structures E Filipe Linking GUM and ISO 5725 A B Forbes Monte Carlo Study on Logical and Statistical Correlation B Siebert et al Some Problems Concerning the Estimate of the Uncertainty of the Degree of Equivalence in MRA Key Comparisons F Pavese Preparing for a European Research Area Network in Metrology Where are We Now M Kuhne et al and other papers Readership Researchers graduate students academics and professionals in metrology   **Mathematical Methods In Electromagnetism: Linear Theory And Applications** Michel Cessenat,1996-07-13 This book provides the reader with basic tools to solve problems of electromagnetism in their natural functional frameworks thanks to modern mathematical methods integral surface methods and also semigroups variational methods etc well adapted to a numerical approach As examples of applications of these tools and concepts we solve several fundamental problems of electromagnetism stationary or time dependent scattering of an incident wave by an obstacle bounded or not by gratings wave propagation in a waveguide with junctions and cascades We hope that mathematical notions will allow a better understanding of modelization in electromagnetism and emphasize the essential features related to the geometry and nature of materials   **Generalized Kinetic Models in Applied Sciences** Luisa Arlotti,2003 This book deals with analytic problems related to some developments and generalizations of the Boltzmann equation toward the modeling and qualitative

analysis of large systems that are of interest in applied sciences These generalizations are documented in the various surveys edited by Bellomo and Pulvirenti with reference to models of granular media traffic flow mathematical biology communication networks and coagulation models The first generalization dealt with refers to the averaged Boltzmann equation which is obtained by suitable averaging of the distribution function of the field particles into the action domain of the test particle This model is further developed to describe equations with dissipative collisions and a class of models that are of interest in mathematical biology In this latter case the state of the particles is defined not only by a mechanical variable but also by a biological microscopic state   *Numerical Methods for Viscosity Solutions and Applications* Maurizio Falcone,Charalampos Makridakis,2001 The volume contains twelve papers dealing with the approximation of first and second order problems which arise in many fields of application including optimal control image processing geometrical optics and front propagation Some contributions deal with new algorithms and technical issues related to their implementation Other contributions are more theoretical dealing with the convergence of approximation schemes Many test problems have been examined to evaluate the performances of the algorithms The volume can attract readers involved in the numerical approximation of differential models in the above mentioned fields of applications engineers graduate students as well as researchers in numerical analysis   *Proceedings, "WASCOM 99"* Vincenzo Ciancio,2001 Mathematical problems concerning time evolution of solutions related to nonlinear systems modelling dynamics of continuous media are of great interest both in wave propagation and in stability problems During the last few decades many striking developments have taken place especially in connection with the effects of nonlinearity of the equations describing physical situations The articles in this book have been written by reputable specialists in the field and represent a valuable contribution to its advancement The topics are discontinuity and shock waves linear and nonlinear stability in fluid dynamics kinetic theories and comparison with continuum models propagation and non equilibrium thermodynamics exact solutions via group methods numerical applications   **Waves And Stability In Continuous Media - Proceedings Of The 10th Conference On Wascom 99** Vicenzo Ciancio,Andrea Donato,Francesco Oliveri,Salvatore Rionero,2001-04-30 Mathematical problems concerning time evolution of solutions related to nonlinear systems modelling dynamics of continuous media are of great interest both in wave propagation and in stability problems During the last few decades many striking developments have taken place especially in connection with the effects of nonlinearity of the equations describing physical situations The articles in this book have been written by reputable specialists in the field and represent a valuable contribution to its advancement The topics are discontinuity and shock waves linear and nonlinear stability in fluid dynamics kinetic theories and comparison with continuum models propagation and non equilibrium thermodynamics exact solutions via group methods numerical applications   Theory of the Navier-Stokes Equations John Groves Heywood,1998 This volume collects the articles presented at the Third International Conference on The Navier Stokes Equations Theory and Numerical Methods

held in Oberwolfach Germany The articles are important contributions to a wide variety of topics in the Navier Stokes theory general boundary conditions flow exterior to an obstacle conical boundary points the controllability of solutions compressible flow non Newtonian flow magneto hydrodynamics thermal convection the interaction of fluids with elastic solids the regularity of solutions and Rothe s method of approximation **Multiple Time Scale Dynamics** Christian Kuehn,2015-02-25 This book provides an introduction to dynamical systems with multiple time scales The approach it takes is to provide an overview of key areas particularly topics that are less available in the introductory form The broad range of topics included makes it accessible for students and researchers new to the field to gain a quick and thorough overview The first of its kind this book merges a wide variety of different mathematical techniques into a more unified framework The book is highly illustrated with many examples and exercises and an extensive bibliography The target audience of this book are senior undergraduates graduate students as well as researchers interested in using the multiple time scale dynamics theory in nonlinear science either from a theoretical or a mathematical modeling perspective Wavelet And Wave Analysis As Applied To Materials With Micro Or Nanostructure Carlo Cattani,Jarema Jaroslavich Rushchitski,2007-09-06 This seminal book unites three different areas of modern science the micromechanics and nanomechanics of composite materials wavelet analysis as applied to physical problems and the propagation of a new type of solitary wave in composite materials nonlinear waves Each of the three areas is described in a simple and understandable form focusing on the many perspectives of the links among the three All of the techniques and procedures are described here in the clearest and most open form enabling the reader to quickly learn and use them when faced with the new and more advanced problems that are proposed in this book By combining these new scientific concepts into a unitary model and enlightening readers on this pioneering field of research readers will hopefully be inspired to explore the more advanced aspects of this promising scientific direction The application of wavelet analysis to nanomaterials and waves in nanocomposites can be very appealing to both specialists working on theoretical developments in wavelets as well as specialists applying these methods and experiments in the mechanics of materials Advances In Nonlinear Partial Differential Equations And Stochastics S Kawashima,Taku Yanagisawa,1998-06-17 In the past two decades there has been great progress in the theory of nonlinear partial differential equations This book describes the progress focusing on interesting topics in gas dynamics fluid dynamics elastodynamics etc It contains ten articles each of which discusses a very recent result obtained by the author Some of these articles review related results related results **Lecture Notes on the Discretization of the Boltzmann Equation** N. Bellomo,Renée Gatignol,2003 This book presents contributions on the following topics discretization methods in the velocity and space analysis of the conservation properties asymptotic convergence to the continuous equation when the number of velocities tends to infinity and application of discrete models It consists of ten chapters Each chapter is written by applied mathematicians who have been active in the field and whose scientific contributions are well recognized by the scientific community **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 *Lecture Notes On The Mathematical Theory Of Generalized Boltzmann Models* Nicola Bellomo,Mauro Lo Schiavo,2000-01-11 This book is based on the idea that Boltzmann like modelling methods can be developed to design with special attention to applied sciences kinetic type models which are called generalized kinetic models In particular these models appear in evolution equations for the statistical distribution over the physical state of each individual of a large population The evolution is determined both by interactions among individuals and by external actions Considering that generalized kinetic models can play an important role in dealing with several interesting systems in applied sciences the book provides a unified presentation of this topic with direct reference to modelling mathematical statement of problems qualitative and computational analysis and applications Models reported and proposed in the book refer to several fields of natural applied and technological sciences In particular the following classes of models are discussed population dynamics and socio economic behaviours models of aggregation and fragmentation phenomena models of biology and immunology traffic flow models models of mixtures and particles undergoing classic and dissipative interactions *Mathematical Topics In Neutron Transport Theory: New Aspects* Mustapha Mokhtar Kharroubi,1997-12-18 This book presents some recent mathematical developments about neutron transport equations Several different topics are dealt with including regularity of velocity averages spectral analysis of transport operators inverse problems nonlinear problems arising in the stochastic theory of neutron chain fissions compactness properties of perturbed of c0 semigroups in Banach spaces with applications to transport theory Miyadera perturbations of c0 semigroups in Banach spaces with applications to singular transport equations a thorough analysis of the leading eigenelements of transport operators and their approximation scattering theory Besides the new problems addressed in this book a unification and extension of the classical spectral analysis of neutron transport equations is given

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