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SINGULARLY PERTURBED EVOLUTION EQUATIONS WITH APPLICATIONS TO KINETIC THEORY

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World Scientific

Singularly Perturbed Evolution Equations With Applications To Kinetic Theory

Richard Bailey



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 **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

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 C_0 semigroups in Banach spaces with applications to transport theory Miyadera perturbations of C_0 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 **Waves And Stability In Continuous Media - Proceedings Of The 10th Conference On Wascom 99** Vincenzo 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 **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 **High-dimensional Nonlinear Diffusion Stochastic Processes** Yevgeny Mamontov, M. Willander, 2001

Annotation This book is one of the first few devoted to high dimensional diffusion stochastic processes with nonlinear coefficients These processes are closely associated with large systems of Ito's stochastic differential equations and with discretized in the parameter versions of Ito's stochastic differential equations that are nonlocally dependent on the parameter The latter models include Ito's stochastic integro differential partial differential and partial integro differential equations The book presents the new analytical treatment which can serve as the basis of a combined analytical numerical approach to greater computational efficiency Some examples of the modelling of noise in semiconductor devices are provided *Stability and Time-optimal Control of Hereditary Systems* Ethelbert N. Chukwu, 2001 *Stability and Time Optimal Control of Hereditary Systems* is the mathematical foundation and theory required for studying in depth the stability and optimal control of systems whose history is taken into account In this edition the economic application is enlarged and explored in some depth The application holds out the hope that full employment and high income growth will be compatible with low prices and low inflation provided that the control matrix has full rank i.e. the existing controls are fully effectively used The book concludes with a new appendix containing

complete programs data graphs and quantitative results for the US economy **Microscopic Theory of Condensation in Gases and Plasma** A. L. Itkin, E. G. Kolesnichenko, 1997 This book summarizes results on the creation of a new theory of condensation which has an impact on consideration of some microscopic effects left aside in the usual nucleation theories In particular the main idea of the authors microscopic condensation theory is that it considers the violation of the equilibrium cluster distribution over the internal degrees of freedom due to co occurring condensation and decay reactions of the clusters

Unveiling the Magic of Words: A Overview of "**Singularly Perturbed Evolution Equations With Applications To Kinetic Theory**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Singularly Perturbed Evolution Equations With Applications To Kinetic Theory**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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