Mathematical Topics in Neutron Transport Theory

New Aspects

Mathematical Topics In Neutron Transport Theory

Maurizio Falcone,Charalampos Makridakis

Mathematical Topics In Neutron Transport Theory:

   Mathematical Topics in Neutron Transport Theory M. Mokhtar-Kharroubi,1997 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 0 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   **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   **Mathematical Topics In Nonlinear Kinetic Theory** Nicola Bellomo,Andrzej Palczewski,Giuseppe Toscani,1989-01-01 This book has the aim of dealing with the Nonlinear evolution problems related to the spatially dependent Boltzmann and Enskog equations

   Scattering Theory for Transport Phenomena Hassan Emamirad,2021-06-27 The scattering theory for transport phenomena was initiated by P Lax and R Phillips in 1967 Since then great progress has been made in the field and the work has been ongoing for more than half a century This book shows part of that progress The book is divided into 7 chapters the first of which deals with preliminaries of the theory of semigroups and C algebra different types of semigroups Schatten von Neuman classes of operators and facts about ultraweak operator topology with examples using wavelet theory Chapter 2 goes into abstract scattering theory in a general Banach space The wave and scattering operators and their basic properties are defined Some abstract methods such as smooth perturbation and the limiting absorption principle are also presented Chapter 3 is devoted to the transport or linearized Boltzmann equation and in Chapter 4 the Lax and Phillips formalism is introduced in scattering theory for the transport equation In their seminal book Lax and Phillips introduced the incoming and outgoing subspaces which verify their representation theorem for a dissipative hyperbolic system initially and also matches for the transport problem By means of these subspaces the Lax and Phillips semigroup is defined and it is proved that this semigroup is eventually compact hence hyperbolic Balanced equations give rise to two transport equations one of which can

satisfy an advection equation and one of which will be nonautonomous For generating the Howland semigroup and Howland s formalism must be used as shown in Chapter 5 Chapter 6 is the highlight of the book in which it is explained how the scattering operator for the transport problem by using the albedo operator can lead to recovery of the functionality of computerized tomography in medical science The final chapter introduces the Wigner function which connects the Schr dinger equation to statistical physics and the Husimi distribution function Here the relationship between the Wigner function and the quantum dynamical semigroup QDS can be seen **Tomography and Inverse Transport Theory** Guillaume Bal,2011 This volume contains research and review articles written by participants of two related international workshops Mathematical Methods in Emerging Modalities of Medical Imaging October 2009 and Inverse Transport Theory and Tomography May 2010 which were held at the Banff International Research Station in Banff Canada These workshops brought together mathematicians physicists engineers and medical researchers working at the cutting edge of medical imaging research and addressed the demanding mathematical problems arising in this area The articles written by leading experts address important analytic numerical and physical issues of the newly developing imaging modalities e g photoacoustics current impedance imaging hybrid imaging techniques elasticity imaging as well as the recent progress in resolving outstanding problems of more traditional modalities such as SPECT ultrasound imaging and inverse transport theory Related topics of invisibility cloaking are also addressed *Evolutionary Equations with Applications in Natural Sciences* Jacek Banasiak,Mustapha Mokhtar-Kharroubi,2014-11-07 With the unifying theme of abstract evolutionary equations both linear and nonlinear in a complex environment the book presents a multidisciplinary blend of topics spanning the fields of theoretical and applied functional analysis partial differential equations probability theory and numerical analysis applied to various models coming from theoretical physics biology engineering and complexity theory Truly unique features of the book are the first simultaneous presentation of two complementary approaches to fragmentation and coagulation problems by weak compactness methods and by using semigroup techniques comprehensive exposition of probabilistic methods of analysis of long term dynamics of dynamical systems semigroup analysis of biological problems and cutting edge pattern formation theory The book will appeal to postgraduate students and researchers specializing in applications of mathematics to problems arising in natural sciences and engineering **Advances in Mathematics Research** Gabriel Oyibo,2003-10-17 Mathematics has been behind many of humanity s most significant advances in fields as varied as genome sequencing medical science space exploration and computer technology But those breakthroughs were yesterday Where will mathematicians lead us tomorrow and can we help shape that destiny This book assembles carefully selected articles highlighting and explaining cutting edge research and scholarship in mathematics Contents Preface Solvability of Quasilinear Elliptic Second Order Differential Equations in Rn without Condition at Infinity Recent Topics on a Class of Nonlinear Integrodifferential Equations of Physical Significance Nonparametric Estimation with Censored

Observations Normalisers of Groups Commensurable with PSL2 Z Spectral Analysis of a Class of Multigroup Neutron Transport Operators in Slab Geometry Extremum of a Nonlocal Functional Depending on Higher Order Derivatives of the Unknown Function On Quantum Conditional Probability Spaces Index *Handbook of Differential Equations: Evolutionary Equations* C.M. Dafermos,Eduard Feireisl,2004-08-24 This book contains several introductory texts concerning the main directions in the theory of evolutionary partial differential equations The main objective is to present clear rigorous and in depth surveys on the most important aspects of the present theory The table of contents includes W Arendt Semigroups and evolution equations Calculus regularity and kernel estimatesA Bressan The front tracking method for systems of conservation lawsE DiBenedetto J M Urbano V Vespri Current issues on singular and degenerate evolution equations L Hsiao S Jiang Nonlinear hyperbolic parabolic coupled systemsA Lunardi Nonlinear parabolic equations and systemsD Serre L1 stability of nonlinear waves in scalar conservation laws B Perthame Kinetic formulations of parabolic and hyperbolic PDE s from theory to numerics *Integral Methods in Science and Engineering* Christian Constanda,Bardo E.J. Bodmann,Haroldo F. de Campos Velho,2013-08-13 Advances in science and technology are driven by the development of rigorous mathematical foundations for the study of both theoretical and experimental models With certain methodological variations this type of study always comes down to the application of analytic or computational integration procedures making such tools indispensible With a wealth of cutting edge research in the field Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques provides a detailed portrait of both the construction of theoretical integral techniques and their application to specific problems in science and engineering The chapters in this volume are based on talks given by well known researchers at the Twelfth International Conference on Integral Methods in Science and Engineering July 23 27 2012 in Porto Alegre Brazil They address a broad range of topics from problems of existence and uniqueness for singular integral equations on domain boundaries to numerical integration via finite and boundary elements conservation laws hybrid methods and other quadrature related approaches The contributing authors bring their expertise to bear on a number of topical problems that have to date resisted solution thereby offering help and guidance to fellow professionals worldwide Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques will be a valuable resource for researchers in applied mathematics physics and mechanical and electrical engineering for graduate students in these disciplines and for various other professionals who use integration as an essential tool in their work **Nonlinear Functional Analysis and Applications** Jesús Garcia-Falset,Khalid Latrach,2023-03-06 Nonlinear functional analysis is a central subject of mathematics with applications in many areas of geometry analysis fl uid and elastic mechanics physics chemistry biology control theory optimization game theory economics etc This work is devoted in a self contained way to several subjects of this topic such as theory of accretive operators in Banach spaces theory of abstract Cauchy problem metric and topological fixed point theory Special emphasis is given to the study how these theories can be used to obtain

existence and uniqueness of solutions for several types of evolution and stationary equations In particular equations arising in dynamical population and neutron transport equations are discussed **Spectral Theory for Linear Operators** Bilel Krichen,2025-08-01 This book focuses on spectral theory for linear operators involving bounded or unbounded demicompact linear operators acting on Banach spaces This class played an important rule in the theory of perturbation More precisely it contributed in the construction of several classes of stability of essential spectra for bounded or unbounded linear operators We should emphasize that this book is the first one dealing with the demicompactness concept and its relation with Fredholm theory for bounded and unbounded linear operators as well as block operator matrices acting on Banach spaces Researchers as well as graduate students in applicable analysis will find that this book constitutes a useful survey of the fundamental principles of the subject Nevertheless the reader is assumed to be at least familiar with some related sections concerning notions like the compact Fredholm operators the basic tools of the weak topology the concept of measures of weak noncompactness etc Otherwise the reader is urged to consult the recommended literature in order to benefit fully from this book Features First book dealing with demicompactness theory and its relation with Fredholm theory for bounded and unbounded linear operators as well as block operator matrices acting on Banach spaces Self contained coverage of classical and more recent classes of perturbations involving the concept of demicompactness Offers a useful survey of the fundamental principles of spectral theory Provides applications for problem arising in physics and which are modeled by integral or partial differential equations Semigroups of Operators -Theory and Applications Jacek Banasiak,Adam Bobrowski,Mirosław Lachowicz,2014-11-20 Many results both from semi group theory itself and from the applied sciences are phrased in discipline specific languages and hence are hardly known to a broader community This volume contains a selection of lectures presented at a conference that was organised as a forum for all mathematicians using semi group theory to learn what is happening outside their own field of research The collection will help to establish a number of new links between various sub disciplines of semigroup theory stochastic processes differential equations and the applied fields The theory of semigroups of operators is a well developed branch of functional analysis Its foundations were laid at the beginning of the 20th century while the fundamental generation theorem of Hille and Yosida dates back to the forties The theory was from the very beginning designed as a universal language for partial differential equations and stochastic processes but at the same time it started to live as an independent branch of operator theory Nowadays it still has the same distinctive flavour it develops rapidly by posing new internal questions and in answering them discovering new methods that can be used in applications On the other hand it is influenced by questions from PDEs and stochastic processes as well as from applied sciences such as mathematical biology and optimal control and thus it continually gathers a new momentum Researchers and postgraduate students working in operator theory partial differential equations probability and stochastic processes analytical methods in biology and other natural sciences optimization and optimal control will find this volume useful

Spectral Theory and Applications of Linear Operators and Block Operator Matrices Aref Jeribi,2015-07-04 Examining recent mathematical developments in the study of Fredholm operators spectral theory and block operator matrices with a rigorous treatment of classical Riesz theory of polynomially compact operators this volume covers both abstract and applied developments in the study of spectral theory These topics are intimately related to the stability of underlying physical systems and play a crucial role in many branches of mathematics as well as numerous interdisciplinary applications By studying classical Riesz theory of polynomially compact operators in order to establish the existence results of the second kind operator equations this volume will assist the reader working to describe the spectrum multiplicities and localization of the eigenvalues of polynomially compact operators   **Numerical Methods for Viscosity Solutions and Applications** Maurizio Falcone,Charalampos Makridakis,2001 Geometrical optics and viscosity solutions A P Blanc G T Kossioris and G N Makrakis Computation of vorticity evolution for a cylindrical Type II superconductor subject to parallel and transverse applied magnetic fields A Briggs et al A characterization of the value function for a class of degenerate control problems F Camilli Some microstructures in three dimensions M Chipot and V Lecuyer Convergence of numerical schemes for the approximation of level set solutions to mean curvature flow K Deckelnick and G Dziuk Optimal discretization steps in semi lagrangian approximation of first order PDEs M Falcone R Ferretti and T Manfroni Convergence past singularities to the forced mean curvature flow for a modified reaction diffusion approach F Fierro The viscosity duality solutions approach to geometric pptics for the Helmholtz equation L Gosse and F James Adaptive grid generation for evolutive Hamilton Jacobi Bellman equations L Grune Solution and application of anisotropic curvature driven evolution of curves and surfaces K Mikula An adaptive scheme on unstructured grids for the shape from shading problem M Sagona and A Seghini On a posteriori error estimation for constant obstacle problems A Veeser   **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   *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   Analytic Methods for Coagulation-Fragmentation Models, Volume I Jacek Banasiak,Wilson Lamb,Philippe Laurencot,2019-09-04 Analytic Methods for Coagulation Fragmentation Models is a two volume set that provides a comprehensive exposition of the mathematical analysis of coagulation fragmentation models Initially an in depth survey of coagulation fragmentation processes is presented together with an account of relevant early results obtained on the associated model equations These provide motivation for the subsequent detailed treatment of more up to date investigations which have led to significant theoretical developments on topics such as solvability and the long term behaviour of solutions To make the account as self contained as possible the mathematical tools that feature prominently in these modern treatments are introduced at appropriate places The main theme of Volume I is the analysis of linear fragmentation models with Volume II devoted to processes that involve the nonlinear contribution of coagulation Features of Volume I The main models of the theory together with their derivations and early methods of solution A detailed presentation of the operator theoretical methods and semigroup theory that play an essential role in the theory of fragmentation processes A comprehensive theory of fragmentation processes including fragmentation with growth and decay in both the discrete and continuous particle size cases An analytical explanation of the pathologies of the fragmentation equation such as the shattering phase transition and non uniqueness of solutions An analysis of the long term dynamics of the discrete size fragmentation equation with growth   **Multigroup Equations For The Description Of The Particle Transport In Semiconductors** Martin Galler,2005-08-25 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 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 **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

Unveiling the Magic of Words: A Report on "**Mathematical Topics In Neutron Transport Theory**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Mathematical Topics In Neutron Transport Theory**," a mesmerizing literary masterpiece penned by way of 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 effect on the souls of its readers.

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Mathematical Topics In Neutron Transport Theory Introduction

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