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# Mathematical Topics in Neutron Transport Theory

New Aspects

# Mathematical Topics In Neutron Transport Theory

**Klaus-Jochen Engel, Rainer Nagel**



## **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  $c_0$  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

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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

**Nonlinear Functional Analysis and Applications** Jesús García-Falset, Khalid Latrach, 2023-03-06 Nonlinear functional analysis is a central subject of mathematics with applications in many areas of geometry analysis fluid 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

#### **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 indispensable 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 **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

**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

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

*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

**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

*Evolution Equations and Approximations* Kazufumi Ito, F. Kappel, 2002 Annotation Ito North Carolina State U and Kappel U of Graz Austria offer a unified presentation of the general approach for well posedness results using abstract evolution equations drawing from and modifying the work of K and Y Kobayashi and S Oharu They also explore abstract approximation results for evolution equations Their work is not a textbook but they explain how instructors can use various sections or combinations of them as a foundation for a range of courses Annotation copyrighted by Book News Inc Portland OR

**One-Parameter Semigroups for Linear Evolution Equations** Klaus-Jochen Engel, Rainer Nagel, 2006-04-06 This book explores the theory of strongly continuous one parameter semigroups of linear operators A special feature of the text is an unusually wide range of applications such as to ordinary and partial differential operators to delay and Volterra equations and to control theory Also the book places an emphasis on philosophical motivation and the historical background

*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 Schrödinger 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

**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

*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

**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

**Mechanical and Thermodynamical Modeling of Fluid Interfaces** René Gatignol, Roger Prud'homme, 2001 This book constitutes a comprehensive survey of the balance equations for mass momentum and energy for the interfaces in pure fluids and mixtures Constitutive laws are presented for many situations in engineering science and examples are provided including surface viscosity effects variable surface tension and vapor recoil In addition some extensions of existing theory are given stretch effect in premixed flames relaxation zones downstream two phase shock waves and effective surface tension for steep gradient zones Contents Thermodynamics and Kinematics of Interfaces Interface Balance Laws Constitutive Relations Deduced from Linear Irreversible Thermodynamics for the Two Dimensional Interfaces Classical Three Dimensional Constitutive Relations Deduced from Linear Irreversible Thermodynamics and Their Consequences for Interfaces Second Gradient Theory Applied to Interfacial Medium Typical Problems Involving Surface Tensions and Other Surface Properties Readership Graduates physicists applied mathematicians and engineers seeking classical knowledge in continuum mechanics and thermodynamics especially in the thermodynamics of irreversible processes

**Homogenization** Sergei M. Kozlov, Viktor L. Vovchik, 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



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