

Mathematical Methods in Kinetic Theory

Cercignani, C

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N. Bellomo



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In recent years kinetic theory has developed in many areas of the physical sciences and engineering and has extended the borders of its traditional fields of application. New applications in traffic flow engineering, granular media modeling and polymer and phase transition physics have resulted in new numerical algorithms which depart from traditional stochastic Monte Carlo methods. This monograph is a self-contained presentation of such recently developed aspects of kinetic theory as well as a comprehensive account of the fundamentals of the theory. Emphasizing modeling techniques and numerical methods, the book provides a unified treatment of kinetic equations not found in more focused theoretical or applied works. The book is divided into two parts. Part I is devoted to the most fundamental kinetic model, the Boltzmann equation of rarefied gas dynamics. Additionally, widely used numerical methods for the discretization of the Boltzmann equation are reviewed: the Monte Carlo method, spectral methods and finite difference methods. Part II considers specific applications: plasma kinetic modeling using the Landau-Fokker-Planck equations, traffic flow modeling, granular media modeling, quantum kinetic modeling and coagulation-fragmentation problems. Modeling and Computational Methods of Kinetic Equations will be accessible to readers working in different communities where kinetic theory is important: graduate students, researchers and practitioners in mathematical physics, applied mathematics and various branches of engineering. The work may be used for self-study as a reference text or in graduate level courses in kinetic theory and its applications.

Mathematical Methods in the Kinetic Theory Mathematisches Forschungsinstitut, 1985 Modern Mathematical Methods in Transport Theory Greenberg, Polewczak, 2013-11-22

The Eleventh International Transport Theory Conference and Symposium in honor of the sixty-fifth birthday of Kenneth Case and the sixtieth birthday of Paul Zweifel was held in Blacksburg, Virginia during May 22-26, 1989, on the campus of Virginia Polytechnic Institute and State University, Virginia Tech. This volume consists of a selection of the invited papers delivered at the Conference and represents a cross-section of the research currently being carried out in the field of transport theory. The volume is divided into two sections. The Symposium lectures are intended each to summarize an important aspect of transport theory as well as to present timely new results of the author's research interest. The Conference lectures are contributions of each author on his current research. As has been the custom in this series of conferences, each lecturer was invited to participate by the organizing committee of the Conference. W. Greenberg, Virginia Tech, chairman; V. Boffi, Università di Firenze; N. Corngold, California Institute of Technology; B. Ganapol, University of Arizona; N. McCormick, University of Washington; P. Nelson, Texas Tech; G. Pomraning, University of California, Los Angeles. The Eleventh

International Transport Theory Conference was funded by generous contributions from Science Applications International Corporation R Beyster president and from Virginia Polytechnic Institute and State University Conference participants and we believe researchers in this and related areas are indebted to these organizations We would like to thank Lamberto Rondoni in the graduate program at Virginia Tech for proofreading manuscripts of all the Italian contributors

Trails in Kinetic Theory Giacomo Albi, Sara Merino-Aceituno, Alessia Nota, Mattia Zanella, 2021-07-15 In recent decades kinetic theory originally developed as a field of mathematical physics has emerged as one of the most prominent fields of modern mathematics In recent years there has been an explosion of applications of kinetic theory to other areas of research such as biology and social sciences This book collects lecture notes and recent advances in the field of kinetic theory of lecturers and speakers of the School Trails in Kinetic Theory Foundational Aspects and Numerical Methods hosted at Hausdorff Institute for Mathematics HIM of Bonn Germany 2019 during the Junior Trimester Program Kinetic Theory Focusing on fundamental questions in both theoretical and numerical aspects it also presents a broad view of related problems in socioeconomic sciences pedestrian dynamics and traffic flow management

Mathematical Methods in Particle Transport Theory Michael Maurice Rudolph Williams, 1971

Kinetic Theory R.L. Liboff, 2006-03-30 This book goes beyond the scope of other works in the field with its thorough treatment of applications in a wide variety of disciplines The third edition features a new section on constants of motion and symmetry and a new appendix on the Lorentz Legendre expansion

Kinetic Theory of Gases and Plasmas PPJM Schram, 2012-12-06 Kinetic theory is the link between the non equilibrium statistical mechanics of many particle systems and macroscopic or phenomenological physics Therefore much attention is paid in this book both to the derivation of kinetic equations with their limitations and generalizations on the one hand and to the use of kinetic theory for the description of physical phenomena and the calculation of transport coefficients on the other hand The book is meant for researchers in the field graduate students and advanced undergraduate students At the end of each chapter a section of exercises is added not only for the purpose of providing the reader with the opportunity to test his understanding of the theory and his ability to apply it but also to complete the chapter with relevant additions and examples that otherwise would have overburdened the main text of the preceding sections The author is indebted to the physicists who taught him Statistical Mechanics Kinetic Theory Plasma Physics and Fluid Mechanics I gratefully acknowledge the fact that much of the inspiration without which this book would not have been possible originated from what I learned from several outstanding teachers In particular I want to mention the late Prof dr H C Brinkman who directed my first steps in the field of theoretical plasma physics my thesis advisor Prof dr N G Van Kampen and Prof dr A N Kaufman whose course on Non Equilibrium Statistical Mechanics in Berkeley I remember with delight

Boundary Value Problems in Abstract Kinetic Theory W. Greenberg, 2013-12-14 This monograph is intended to be a reasonably self contained and fairly complete exposition of rigorous results in abstract kinetic theory Throughout abstract kinetic equations refer to an abstract

formulation of equations which describe transport of particles momentum energy or indeed any transportable physical quantity These include the equations of traditional neutron transport theory radiative transfer and rarefied gas dynamics as well as a plethora of additional applications in various areas of physics chemistry biology and engineering The mathematical problems addressed within the monograph deal with existence and uniqueness of solutions of initial boundary value problems as well as questions of positivity continuity growth stability explicit representation of solutions and equivalence of various formulations of the transport equations under consideration The reader is assumed to have a certain familiarity with elementary aspects of functional analysis especially basic semigroup theory and an effort is made to outline any more specialized topics as they are introduced Over the past several years there has been substantial progress in developing an abstract mathematical framework for treating linear transport problems The benefits of such an abstract theory are twofold i a mathematically rigorous basis has been established for a variety of problems which were traditionally treated by somewhat heuristic distribution theory methods and ii the results obtained are applicable to a great variety of disparate kinetic processes Thus numerous different systems of integrodifferential equations which model a variety of kinetic processes are themselves modelled by an abstract operator equation on a Hilbert or Banach space

Kinetic Theory of Gases in Shear Flows Vicente Garzó, A. Santos, 2013-03-09 The kinetic theory of gases as we know it dates to the paper of Boltzmann in 1872 The justification and context of this equation has been clarified over the past half century to the extent that it comprises one of the most complete examples of many body analyses exhibiting the contraction from a microscopic to a mesoscopic description The primary result is that the Boltzmann equation applies to dilute gases with short ranged interatomic forces on space and time scales large compared to the corresponding atomic scales Otherwise there is no a priori limitation on the state of the system This means it should be applicable even to systems driven very far from its equilibrium state However in spite of the physical simplicity of the Boltzmann equation its mathematical complexity has masked its content except for states near equilibrium While the latter are very important and the Boltzmann equation has been a resounding success in this case the full potential of the Boltzmann equation to describe more general nonequilibrium states remains unfulfilled An important exception was a study by Ikenberry and Truesdell in 1956 for a gas of Maxwell molecules undergoing shear flow They provided a formally exact solution to the moment hierarchy that is valid for arbitrarily large shear rates It was the first example of a fundamental description of rheology far from equilibrium albeit for an unrealistic system With rare exceptions significant progress on nonequilibrium states was made only 20-30 years later

[Modeling Complex Living Systems](#) N. Bellomo, 2008 Develops different mathematical methods and tools to model living systems This book presents material that can be used in such real world applications as immunology transportation engineering and economics It is of interest to those involved in modeling complex social systems and living matter in general

Mathematical Methods in Particle Transport Theory Michael Maurice Rudolph Williams, 1971

Principles of Vapor Deposition of Thin Films Professor K.S. K.S Sree

Harsha,2005-12-16 The goal of producing devices that are smaller faster more functional reproducible reliable and economical has given thin film processing a unique role in technology Principles of Vapor Deposition of Thin Films brings in to one place a diverse amount of scientific background that is considered essential to become knowledgeable in thin film deposition techniques Its ultimate goal as a reference is to provide the foundation upon which thin film science and technological innovation are possible Offers detailed derivation of important formulae Thoroughly covers the basic principles of materials science that are important to any thin film preparation Careful attention to terminologies concepts and definitions as well as abundance of illustrations offer clear support for the text **Boltzmann Equation, Maxwell Models, and Hydrodynamics beyond Navier-Stokes**

Alexander V. Bobylev,2020-10-12 This two volume monograph is a comprehensive and up to date presentation of the theory and applications of kinetic equations The first volume covers many particle dynamics Maxwell models of the Boltzmann equation including their exact and self similar solutions and hydrodynamic limits beyond the Navier Stokes level **A Quest Towards a Mathematical Theory of Living Systems**

Nicola Bellomo,Abdelghani Bellouquid,Livio Gibelli,Nisrine Outada,2017-07-13 This monograph aims to lay the groundwork for the design of a unified mathematical approach to the modeling and analysis of large complex systems composed of interacting living things Drawing on twenty years of research in various scientific fields it explores how mathematical kinetic theory and evolutionary game theory can be used to understand the complex interplay between mathematical sciences and the dynamics of living systems The authors hope this will contribute to the development of new tools and strategies if not a new mathematical theory The first chapter discusses the main features of living systems and outlines a strategy for their modeling The following chapters then explore some of the methods needed to potentially achieve this in practice Chapter Two provides a brief introduction to the mathematical kinetic theory of classical particles with special emphasis on the Boltzmann equation the Enskog equation mean field models and Monte Carlo methods are also briefly covered Chapter Three uses concepts from evolutionary game theory to derive mathematical structures that are able to capture the complexity features of interactions within living systems The book then shifts to exploring the relevant applications of these methods that can potentially be used to derive specific usable models The modeling of social systems in various contexts is the subject of Chapter Five and an overview of modeling crowd dynamics is given in Chapter Six demonstrating how this approach can be used to model the dynamics of multicellular systems The final chapter considers some additional applications before presenting an overview of open problems The authors then offer their own speculations on the conceptual paths that may lead to a mathematical theory of living systems hoping to motivate future research activity in the field A truly unique contribution to the existing literature A Quest Toward a Mathematical Theory of Living Systems is an important book that will no doubt have a significant influence on the future directions of the field It will be of interest to mathematical biologists systems biologists biophysicists and other researchers working on understanding the complexities of living systems

Handbook of Mathematical Fluid Dynamics S. Friedlander,D. Serre,2002-07-09 The Handbook of Mathematical Fluid Dynamics is a compendium of essays that provides a survey of the major topics in the subject Each article traces developments surveys the results of the past decade discusses the current state of knowledge and presents major future directions and open problems Extensive bibliographic material is provided The book is intended to be useful both to experts in the field and to mathematicians and other scientists who wish to learn about or begin research in mathematical fluid dynamics The Handbook illuminates an exciting subject that involves rigorous mathematical theory applied to an important physical problem namely the motion of fluids

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