Applied Mathematical Sciences 106 Carlo Cercignani Reinhard Illner Mario Pulvirenti

The Mathematical Theory of Dilute Gases



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Carlo Cercignani, Reinhard Illner, Mario Pulvirenti

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The Mathematical Theory of Dilute Gases Carlo Cercignani, Reinhard Illner, Mario Pulvirenti, 2013-12-01 The idea for this book was conceived by the authors some time in 1988 and a first outline of the manuscript was drawn up during a summer school on mathematical physics held in Ravello in September 1988 where all three of us were present as lecturers or organizers The project was in some sense inherited from our friend Marvin Shinbrot who had planned a book about recent progress for the Boltzmann equation but due to his untimely death in 1987 never got to do it When we drew up the first outline we could not anticipate how long the actual writing would stretch out Our ambitions were high We wanted to cover the modern mathematical theory of the Boltzmann equation with rigorous proofs in a complete and readable volume As the years progressed we withdrew to some degree from this first ambition there was just too much material too scattered sometimes incomplete sometimes not rigor ous enough However in the writing process itself the need for the book became ever more apparent The last twenty years have seen an amazing number of significant results in the field many of them published in incom plete form sometimes in obscure places and sometimes without technical details We made it our objective to collect these results classify them and present them as best we could The choice of topics remains of course subjective

The Mathematical Theory of Dilute Gases Carlo Cercignani, Reinhard Illner, Mario Pulvirenti, 2014-09-01 Handbook of Numerical Methods for Hyperbolic Problems Remi Abgrall, Chi-Wang Shu, 2017-01-16 Handbook on Numerical Methods for Hyperbolic Problems Applied and Modern Issues details the large amount of literature in the design analysis and application of various numerical algorithms for solving hyperbolic equations that has been produced in the last several decades This volume provides concise summaries from experts in different types of algorithms so that readers can find a variety of algorithms under different situations and become familiar with their relative advantages and limitations Provides detailed cutting edge background explanations of existing algorithms and their analysis Presents a method of different algorithms for specific applications and the relative advantages and limitations of different algorithms for engineers or those involved in applications Written by leading subject experts in each field the volumes provide breadth and depth of Mathematical Models of Granular Matter Gianfranco Capriz, Pasquale Giovine, Paolo Maria content coverage Mariano, 2008-04-18 Granular matter displays a variety of peculiarities that distinguish it from other appearances studied in condensed matter physics and renders its overall mathematical modelling somewhat arduous Prominent directions in the modelling granular flows are analyzed from various points of view Foundational issues numerical schemes and experimental results are discussed The volume furnishes a rather complete overview of the current research trends in the mechanics of granular matter Various chapters introduce the reader to different points of view and related techniques New models describing granular bodies as complex bodies are presented Results on the analysis of the inelastic Boltzmann equations are collected in different chapters Gallavotti Cohen symmetry is also discussed **Mathematical Modeling of Collective**

Behavior in Socio-Economic and Life Sciences Giovanni Naldi, Lorenzo Pareschi, Giuseppe Toscani, 2010-08-12 Mathematical modeling using dynamical systems and partial differential equations is now playing an increasing role in the understanding of complex multi scale phenomena Behavior in seemingly different areas such as sociology economics and the life sciences can be described by closely related models Using examples from financial markets and modern warfare to the flocking of birds and the swarming of bacteria the collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior. The topics presented point toward new and challenging frontiers of applied mathematics making the volume a useful reference text for applied mathematicians physicists biologists and economists involved in the modeling of socio economic systems The Mathematics of Mechanobiology Antonio DeSimone, Benoît Perthame, Alfio Quarteroni, Lev Truskinovsky, 2020-06-29 This book presents the state of the art in mathematical research on modelling the mechanics of biological systems a science at the intersection between biology mechanics and mathematics known as mechanobiology The book gathers comprehensive surveys of the most significant areas of mechanobiology cell motility and locomotion by shape control Antonio DeSimone models of cell motion and tissue growth Beno t Perthame numerical simulation of cardiac electromechanics Alfio Quarteroni and power stroke driven muscle contraction Lev Truskinovsky Each section is self-contained in terms of the biomechanical background and the content is accessible to all readers with a basic understanding of differential equations and numerical analysis The book disentangles the phenomenological complexity of the biomechanical problems while at the same time addressing the mathematical complexity with invaluable clarity The book is intended for a wide audience in particular graduate students and applied mathematicians interested in entering this fascinating field **Contemporary Kinetic Theory of Matter** J. R. Dorfman, Henk van Beijeren, T. R. Kirkpatrick, 2021-06-24 Kinetic theory provides a microscopic description of many observable macroscopic processes and has a wide range of important applications in physics astronomy chemistry and engineering This powerful theoretical framework allows a quantitative treatment of many non equilibrium phenomena such as transport processes in classical and quantum fluids This book describes in detail the Boltzmann equation theory obtained in both traditional and modern ways Applications and generalizations describing non equilibrium processes in a variety of systems are also covered including dilute and moderately dense gases particles in random media hard sphere crystals condensed Bose Einstein gases and granular materials Fluctuation phenomena in non equilibrium fluids and related non analyticities in the hydrodynamic equations are also discussed in some detail A thorough examination of many topics concerning time dependent phenomena in material systems this book describes both current knowledge as well as future directions of the field Analytic Methods for Coagulation-Fragmentation Models, Volume II Jacek Banasiak, Wilson Lamb, Philippe Laurencot, 2019-09-05 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 II A primer on weak compactness in L 1 and dynamical systems A comprehensive theory of solvability of the coagulation fragmentation equation by both the semigroup and weak compactness methods including a thorough analysis of the gelation and shattering phenomena A detailed analysis of the long term dynamics of the coagulation fragmentation equations with a state of the art Statistical Physics of Non Equilibrium Quantum Phenomena Yves Pomeau, Minh-Binh discussion on self similar solutions Tran, 2019-11-29 This book provides an introduction to topics in non equilibrium quantum statistical physics for both mathematicians and theoretical physicists The first part introduces a kinetic equation of Kolmogorov type which is needed to describe an isolated atom actually in experiments an ion under the effect of a classical pumping electromagnetic field which keeps the atom in its excited state s together with the random emission of fluorescence photons which put it back into its ground state The quantum kinetic theory developed in the second part is an extension of Boltzmann's classical non quantum kinetic theory of a dilute gas of quantum bosons This is the source of many interesting fundamental questions particularly because if the temperature is low enough such a gas is known to have at equilibrium a transition the Bose Einstein transition where a finite portion of the particles stay in the quantum ground state An important question considered is how a Bose gas condensate develops in time if its energy is initially low enough From Particle Systems to Partial Differential Equations III Patrícia Gonçalves, Ana Jacinta Soares, 2016-07-16 The main focus of this book is on different topics in probability theory partial differential equations and kinetic theory presenting some of the latest developments in these fields It addresses mathematical problems concerning applications in physics engineering chemistry and biology that were presented at the Third International Conference on Particle Systems and Partial Differential Equations held at the University of Minho Braga Portugal in December 2014 The purpose of the conference was to bring together prominent researchers working in the fields of particle systems and partial differential equations providing a venue for them to present their latest findings and discuss their areas of expertise Further it was intended to introduce a vast and varied public including young researchers to the subject of interacting particle systems its underlying motivation and its relation to partial differential equations This book will appeal to probabilists analysts and those mathematicians whose work involves topics in mathematical physics stochastic processes and differential equations in general as well as those physicists whose work centers on statistical mechanics and kinetic theory Advances in Mathematical Fluid Mechanics Josef Malek, Jindrich Necas, Mirko Rokyta, 2012-12-06 This book

consists of six survey contributions that are focused on several open problems of theoretical fluid mechanics both for incompressible and compressible fluids The first article Viscous flows in Besov spaces by M area Cannone ad dresses the problem of global existence of a uniquely defined solution to the three dimensional Navier Stokes equations for incompressible fluids Among others the following topics are intensively treated in this contribution i the systematic description of the spaces of initial conditions for which there exists a unique local in time solution or a unique global solution for small data ii the existence of forward self similar solutions iii the relation of these results to Leray s weak solutions and backward self similar solutions iv the extension of the results to further nonlinear evolutionary problems Particular attention is paid to the critical spaces that are invariant under the self similar transform For sufficiently small Reynolds numbers the conditional stability in the sense of Lyapunov is also studied The article is endowed by interesting personal and historical comments and an exhaustive bibliography that gives the reader a complete picture about available literature The papers The dynamical system approach to the Navier Stokes equa tions for compressible fluids by Eduard Feireisl and Asymptotic problems and compressible incompressible limits by Nader Masmoudi are devoted to the global in time properties of solutions to the Navier Stokes equa and three tions for compressible fluids The global in time analysis of two dimensional motions of compressible fluids were left open for many years **Stability and Transition in Shear Flows** Peter J. Schmid, Dan S. Henningson, 2012-12-06 The field of hydrodynamic stability has a long history going back to Rey nolds and Lord Rayleigh in the late 19th century Because of its central role in many research efforts involving fluid flow stability theory has grown into a mature discipline firmly based on a large body of knowledge and a vast body of literature The sheer size of this field has made it difficult for young researchers to access this exciting area of fluid dynamics For this reason writing a book on the subject of hydrodynamic stability theory and transition is a daunting endeavor especially as any book on stability theory will have to follow into the footsteps of the classical treatises by Lin 1955 Betchov Criminale 1967 Joseph 1971 and Drazin Reid 1981 Each of these books has marked an important development in stability theory and has laid the foundation for many researchers to advance our understanding of stability and transition in shear flows **Parallel Algorithms and Cluster Computing** Karl Heinz Hoffmann, Arnd Meyer, 2007-06-24

Highperformancecomputinghaschangedthewayinwhichscienceprogresses During the last 20 years the increase in computing power the development of e ective algorithms and the application of these tools in the area of physics and engineering has been decisive in the advancement of our technological world These abilities have allowed to treat problems with a complexity which had been out of reach for analytical approaches While the increase in perf mance of single processes has been immense the increase of massive parallel computing as well as the advent of clustercomputershas opened up the pos bilities to study realistic systems This book presents major advances in high performance computing as well as major advances due to high performance computing The progress made during the last decade rests on the achie ments in three distinct science

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drivingforcebehindthedevelopmentofnewtoolsandnewapproachesinthese science areas The treatment of complex physical systems with frustration and disorder the analysis of the elastic and non elastic movement of solids as well as the analysis of coupled uid systems pose problems which are open to a numerical analysis only with state of the art computing power and algorithms The desire of scientic accuracy and quantitative precision leads to an enormous demand in computing power Asking the right questions in these areas lead to new insights which have not been available due to other means like experimental measurements These condare a which is decisive for ective high performance computing is a real m of e ective algorithms Numerical Approximation of Hyperbolic Systems of Conservation Laws Edwige Godlewski, Pierre-Arnaud Raviart, 2013-11-21 This work is devoted to the theory and approximation of nonlinear hyper bolic systems of conservation laws in one or two space variables It follows directly a previous publication on hyperbolic systems of conservation laws by the same authors and we shall make frequent references to Godlewski and Raviart 1991 hereafter noted G R though the present volume can be read independently This earlier publication apart from a first chap ter especially covered the scalar case Thus we shall detail here neither the mathematical theory of multidimensional scalar conservation laws nor their approximation in the one dimensional case by finite difference con servative schemes both of which were treated in G R but we shall mostly consider systems The theory for systems is in fact much more difficult and not at all completed This explains why we shall mainly concentrate on some theoretical aspects that are needed in the applications such as the solution of the Riemann problem with occasional insights into more sophisticated problems The present book is divided into six chapters including an introductory chapter For the reader s convenience we shall resume in this Introduction the notions that are necessary for a self sufficient understanding of this book the main definitions of hyperbolicity weak solutions and entropy present the practical examples that will be thoroughly developed in the following chapters and recall the main results concerning the Waves And Stability In Continuous Media - Proceedings Of The 15th Conference On Wascom 2009 Antonio scalar case Maria Greco, Salvatore Rionero, Tommaso Ruggeri, 2010-04-29 This book contains recent contributions in the field of waves propagation and stability in continuous media The volume is the sixth in a series published by World Scientific since 1999

Multicomponent Flow Modeling Vincent Giovangigli,2012-12-06 The goal of this is book to give a detailed presentation of multicomponent flow models and to investigate the mathematical structure and properties of the resulting system of partial differential equations These developments are also illustrated by simulating numerically a typical laminar flame Our aim in the chapters is to treat the general situation of multicomponent flows taking into account complex chemistry and detailed transport phe nomena In this book we have adopted an interdisciplinary approach that en compasses a physical mathematical and numerical point of view In par ticular the links between molecular models macroscopic models mathematical structure and mathematical properties are emphasized We also often mention flame models since combustion is an

excellent prototype of multicomponent flow This book still does not pretend to be a complete survey of existing models and related mathematical results In particular many subjects like multi phase flows turbulence modeling specific applications porous me dia biological models or magneto hydrodynamics are not covered. We rather emphasize the fundamental modeling of multicomponent gaseous flows and the qualitative properties of the resulting systems of partial differential equations Part of this book was taught at the post graduate level at the Uni versity of Paris the University of Versailles and at Ecole Poly technique in 1998 1999 to students of applied mathematics **Modeling and Computational Methods for Kinetic** Equations Pierre Degond, Lorenzo Pareschi, Giovanni Russo, 2012-12-06 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 Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures. These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and

Hyperbolic Problems: Theory, Numerics And Applications (In 2 graduate students up through professional researchers Volumes) Tatsien Li, Song Jiang, 2012-09-28 This two volume book is devoted to mathematical theory numerics and applications of hyperbolic problems Hyperbolic problems have not only a long history but also extremely rich physical background The development is highly stimulated by their applications to Physics Biology and Engineering Sciences in particular by the design of effective numerical algorithms Due to recent rapid development of computers more and more scientists use hyperbolic partial differential equations and related evolutionary equations as basic tools when proposing new mathematical models of various phenomena and related numerical algorithms This book contains 80 original research and review papers which are written by leading researchers and promising young scientists which cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of Hyperbolic Partial Differential Equations It is aimed at mathematicians researchers in applied sciences and graduate students and Numerics of Kinetic Dissipative Systems Lorenzo Pareschi, Giovanni Russo, 2006 The book is divided into three parts which contain respectively recent results in the kinetic theory of granular gases kinetic theory of chemically reacting gases and numerical methods for kinetic systems Part I is devoted to theoretical aspects of granular gases Part II presents recent results on modelling of kinetic systems in which molecules can undergo binary collisions in presence of chemical reactions and or in presence of quantum effects Part III contains several contributions related to the construction of suitable numerical methods and simulations for granular gases

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