Mathematical Topics in Fluid Mechanics

Volume 2
Compressible Models

PIERRE-LOUIS LIONS

Mathematical Topics In Fluid Mechanics Compressible Models

Stephen Shing-Toung Yau

Mathematical Topics In Fluid Mechanics Compressible Models:

Mathematical Topics in Fluid Mechanics: Volume 2: Compressible Models Pierre-Louis Lions,1996 Fluid mechanics models consist of systems of nonlinear partial differential equations for which despite a long history of important mathematical contributions no complete mathematical understanding is available The second volume of this book describes compressible fluid mechanics models The book contains entirely new material on a subject known to be rather difficult and important for applications compressible flows It is probably a unique effort on the mathematical problems associated with the compressible Navier Stokes equations written by one of the world s leading experts on nonlinear partial differential equations Professor P L Lions won the Fields Medal in 1994 **Mathematical Topics in Fluid Mechanics: Volume 2: Compressible Models** Pierre-Louis Lions,1998-03-19 Fluid mechanics models consist of systems of nonlinear partial differential equations for which despite a long history of important mathematical contributions no complete mathematical understanding is available The second volume of this book describes compressible fluid mechanics models The book contains entirely new material on a subject known to be rather difficult and important for applications compressible flows It is probably a unique effort on the mathematical problems associated with the compressible Navier Stokes equations written by one of the world s leading experts on nonlinear partial differential equations Professor P L Lions won the Fields Medal in 1994 *Mathematical Topics in Fluid Mechanics: Volume 1: Incompressible Models* Pierre-Louis Lions,1996-06-27 One of the most challenging topics in applied mathematics over the past decades has been the development of the theory of nonlinear partial differential equations Many of the problems in mechanics geometry probability etc lead to such equations when formulated in mathematical terms However despite a long history of contributions there exists no central core theory and the most important advances have come from the study of particular equations and classes of equations arising in specific applications This two volume work forms a unique and rigorous treatise on various mathematical aspects of fluid mechanics models These models consist of systems of nonlinear partial differential equations like the incompressible and compressible Navier Stokes equations The main emphasis in Volume 1 is on the mathematical analysis of incompressible models After recalling the fundamental description of Newtonian fluids an original and self contained study of both the classical Navier Stokes equations including the inhomogeneous case and the Euler equations is given Known results and many new results about the existence and regularity of solutions are presented with complete proofs The discussion contains many interesting insights and remarks The text highlights in particular the use of modern analytical tools and methods and also indicates many open problems Volume 2 will be devoted to essentially new results for compressible models Written by one of the world s leading researchers in nonlinear partial differential equations Mathematical Topics in Fluid Mechanics will be an indispensable reference for every serious researcher in the field Its topicality and the clear concise and deep presentation by the author make it an outstanding contribution to the great theoretical problems in science concerning

rigorous mathematical modelling of physical phenomena   *Mathematical Topics in Fluid Mechanics: Volume 1: Incompressible Models* Pierre-Louis Lions,1996-06-27 One of the most challenging topics in applied mathematics over the past decades has been the development of the theory of nonlinear partial differential equations Many of the problems in mechanics geometry probability etc lead to such equations when formulated in mathematical terms However despite a long history of contributions there exists no central core theory and the most important advances have come from the study of particular equations and classes of equations arising in specific applications This two volume work forms a unique and rigorous treatise on various mathematical aspects of fluid mechanics models These models consist of systems of nonlinear partial differential equations like the incompressible and compressible Navier Stokes equations The main emphasis in Volume 1 is on the mathematical analysis of incompressible models After recalling the fundamental description of Newtonian fluids an original and self contained study of both the classical Navier Stokes equations including the inhomogeneous case and the Euler equations is given Known results and many new results about the existence and regularity of solutions are presented with complete proofs The discussion contains many interesting insights and remarks The text highlights in particular the use of modern analytical tools and methods and also indicates many open problems Volume 2 will be devoted to essentially new results for compressible models Written by one of the world s leading researchers in nonlinear partial differential equations Mathematical Topics in Fluid Mechanics will be an indispensable reference for every serious researcher in the field Its topicality and the clear concise and deep presentation by the author make it an outstanding contribution to the great theoretical problems in science concerning rigorous mathematical modelling of physical phenomena
    Mathematical Topics in Fluid Mechanics Jose Francisco Rodrigues,Adelia Sequeira,2020-10-02 This Research Note presents several contributions and mathematical studies in fluid mechanics namely in non Newtonian and viscoelastic fluids and on the Navier Stokes equations in unbounded domains It includes review of the mathematical analysis of incompressible and compressible flows and results in magnetohydrodynamic and electrohydrodynamic stability and thermoconvective flow of Boussinesq Stefan type These studies along with brief communications on a variety of related topics comprise the proceedings of a summer course held in Lisbon Portugal in 1991 Together they provide a set of comprehensive survey and advanced introduction to problems in fluid mechanics and partial differential equations   *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   **Mean Field Theories and Dual Variation - Mathematical Structures of the Mesoscopic Model** Takashi Suzuki,2015-11-19 Mean field approximation has been adopted to describe macroscopic phenomena from microscopic overviews It is still in progress fluid mechanics gauge theory plasma physics quantum chemistry mathematical oncology non equilibirum thermodynamics spite of such a wide range of scientific areas that are concerned with the mean field theory a unified study of its mathematical structure has not been discussed explicitly in the open literature The benefit of this point of view on nonlinear problems should have significant impact on future research as will be seen from the underlying features of self assembly or bottom up self organization which is to be illustrated in a unified way The aim of this book is to formulate the variational and hierarchical aspects of the equations that arise in the mean field theory from macroscopic profiles to microscopic principles from dynamics to equilibrium and from biological models to models that arise from chemistry and physics   **Fluids Under Pressure** Tomáš Bodnár,Giovanni P. Galdi,Šárka Nečasová,2020-04-30 This contributed volume is based on talks given at the August 2016 summer school Fluids Under Pressure held in Prague as part of the Prague Sum series Written by experts in their respective fields chapters explore the complex role that pressure plays in physics mathematical modeling and fluid flow analysis Specific topics covered include Oceanic and atmospheric dynamics Incompressible flows Viscous compressible flows Well posedness of the Navier Stokes equations Weak solutions to the Navier Stokes equations Fluids Under Pressure will be a valuable resource for graduate students and researchers studying fluid flow dynamics   First International Congress of Chinese Mathematicians Stephen Shing-Toung Yau,2001 The International Congress of Mathematicians was an historical event that was held at the Morningside Center of Mathematics of the Chinese Academy of Sciences Beijing It was the first occasion where Chinese mathematicians from all over the world gathered to present their research The Morningside Mathematics lectures were given by R Borcherds J Coates R Graham and D Stroock Other distinguished speakers included J P Bourguignon J J st M Taylor and S L Lee Topics covered in the volume include algebra and representation theory algebraic geometry number theory and automorphic forms Riemannian geometry and geometric analysis mathematical physics topology complex analysis and complex geometry computational mathematics and combinatorics Titles in this series are copublished with International Press Cambridge MA   **System Modeling and Optimization** Adam Korytowski,Maciej Szymkat,Kazimierz Malanowski,Wojciech Mitkowski,2009-10-15 rd This book constitutes a collection of extended versions of papers presented at the 23 IFIP TC7 Conference on System Modeling and Optimization which was held in C cow Poland on July 23 27 2007 It contains 7 plenary and 22 contributed articles the latter selected via a peer reviewing process Most of the papers are concerned with optimization and optimal control Some of them deal with practical issues e g p formance based design for seismic risk reduction or evolutionary optimization in structural engineering Many contributions concern optimization of

infini dimensional systems ranging from a general overview of the variational analysis through optimization and sensitivity analysis of PDE systems to optimal control of neutral systems A significant group of papers is devoted to shape analysis and opti zation Sufficient optimality conditions for ODE problems and stochastic control methods applied to mathematical finance are also investigated The remaining papers are on mathematical programming modeling and information technology The conference was the 23rd event in the series of such meetings biennially org ized under the auspices of the Seventh Technical Committee Systems Modeling and Optimization of the International Federation for Information Processing IFIP TC7

Singular Limits in Thermodynamics of Viscous Fluids Eduard Feireisl,Antonín Novotný,2017-11-24 This book is about singular limits of systems of partial differential equations governing the motion of thermally conducting compressible viscous fluids The main aim is to provide mathematically rigorous arguments how to get from the compressible Navier Stokes Fourier system several less complex systems of partial differential equations used e g in meteorology or astrophysics However the book contains also a detailed introduction to the modelling in mechanics and thermodynamics of fluids from the viewpoint of continuum physics The book is very interesting and important It can be recommended not only to specialists in the field but it can also be used for doctoral students and young researches who want to start to work in the mathematical theory of compressible fluids and their asymptotic limits Milan Pokorn zbMATH This book is of the highest quality from every point of view It presents in a unified way recent research material of fundament al importance It is self contained thanks to Chapter 3 existence theory and to the appendices It is extremely well organized and very well written It is a landmark for researchers in mathematical fluid dynamics especially those interested in the physical meaning of the equations and statements Denis Serre MathSciNet *Mathematical Study of the Betaplane Model* Isabelle Gallagher,Laure Saint-Raymond,2006 The authors are interested in a model of rotating fluids describing the motion of the ocean in the equatorial zone This model is known as the Saint Venant or shallow water type system to which a rotation term is added whose amplitude is linear with respect to the latitude in particular it vanishes at the equator After a physical introduction to the model the authors describe the various waves involved and study in detail the resonances associated to those waves They then exhibit the formal limit system as the rotation becomes large obtained as usual by filtering out the waves and prove its wellposedness Finally they prove three types of convergence results a weak convergence result towards a linear geostrophic equation a strong convergence result of the filtered solutions towards the unique strong solution to the limit system and a hybrid strong convergence result of the filtered solutions towards a weak solution to the limit system In particular the authors obtain that there are no confined equatorial waves in the mean motion as the rotation becomes large **Mathematical Topics in Fluid Mechanics: Incompressible models** Pierre-Louis Lions,1996 **Russian Mathematical Surveys** ,1999 **Kyushu Journal of Mathematics** ,2002 **Numerical Methods for Fluids, Part 3** P.G. Ciarlet,Jacques-Louis Lions,1990 This book size article is dedicated to the numerical simulation of unsteady incompressible viscous flow modelled by the Navier Stokes

equations or by non Newtonian variants of them In order to achieve this goal a methodology has been developed based on four key tools Time discretization by operator splitting schemes such as Peaceman Rachford s Douglas Rachford s Marchuk Yanenko s Strang s symmetrized and the so called theta scheme introduced by the author in the mid 1980s Projection methods in L2 or H1 for the treatment of the incompressibility condition div u 0 Treatment of the advection by either a centered scheme leading to linear or nonlinear advection diffusion problems solved by least squares conjugate gradient algorithms or to a linear wave like equation well suited to finite element based solution methods Space approximation by finite element methods such as Hood Taylor and Bercovier Pironneau which are relatively easy to implement conjugate gradient algorithms least squares methods for boundary value problems which are not equivalent to problems of the calculus of variations Uzawa type algorithms for the solution of saddle point problems embedding fictitious domain methods for the solution of elliptic and parabolic problems In fact many computational methods discussed in this article also apply to non CFD problems although they were mostly designed for the solution of flow problems Among the topics covered are the direct numerical simulation of particulate flow computational methods for flow control splitting methods for viso plastic flow a la Bingham and more It should also be mentioned that most methods discussed in this article are illustrated by the results of numerical experiments including the simulation of three dimensional flow easy to implement as is demonstrated by the fact that several practitioners in various institutions have been able to use them ab initio for the solution of complicated flow and other problems   **Kyoto Conference on the Navier-Stokes Equations and Their Applications** ,2007   *Mean Field Theories and Dual Variation* Takashi Suzuki,2008 A mathematical theory is introduced in this book to unify a large class of nonlinear partial differential equation PDE models for better understanding and analysis of the physical and biological phenomena they represent The so called mean field approximation approach is adopted to describe the macroscopic phenomena from certain microscopic principles for this unified mathematical formulation Two key ingredients for this approach are the notions of duality according to the PDE weak solutions and hierarchy for revealing the details of the otherwise hidden secrets such as physical mystery hidden between particle density and field concentration quantized blow up biological mechanism sealed in chemotaxis systems as well as multi scale mathematical explanations of the Smoluchowskindash Poisson model in non equilibrium thermodynamics two dimensional turbulence theory self dual gauge theory and so forth This book shows how and why many different nonlinear problems are inter connected in terms of the properties of duality and scaling and the way to analyze them mathematically   Differential and Integral Equations ,2003   *SIAM Journal on Numerical Analysis* ,2000-07

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