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Mathematical Topics in Fluid Mechanics

Volume 2
Compressible Models

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Mathematical Topics In Fluid Mechanics

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source of information to graduate students 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. Cannone addresses 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 equations 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 equations and three theorems for compressible fluids The global in time analysis of two dimensional motions of compressible fluids were left open for many years **A Mathematical Introduction to Fluid Mechanics** Alexandre J. Chorin, Jerrold E. Marsden, 2012-12-06 Mathematical Introduction to Fluid Mechanics presents some selected highlights of currently interesting topics in fluid mechanics in a compact form as well as providing a concise and appealing exposition of the basic theory of fluid mechanics The first chapter contains an elementary derivation of the equations and the concept of vorticity is introduced The second chapter contains a discussion of potential flow vortex motion and boundary layers A construction of boundary layers using vortex sheets and random walks is presented Chapter 3 contains an analysis of one dimensional gas flow from a mildly modern point of view Weak solution Riemann problems Glimm's scheme and combustion waves are covered 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 **Handbook of Mathematical Fluid Dynamics** S. Friedlander, D. Serre, 2007-05-16 This is the fourth volume in a series of survey articles covering many aspects of mathematical fluid dynamics a vital source of open mathematical problems and exciting physics

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