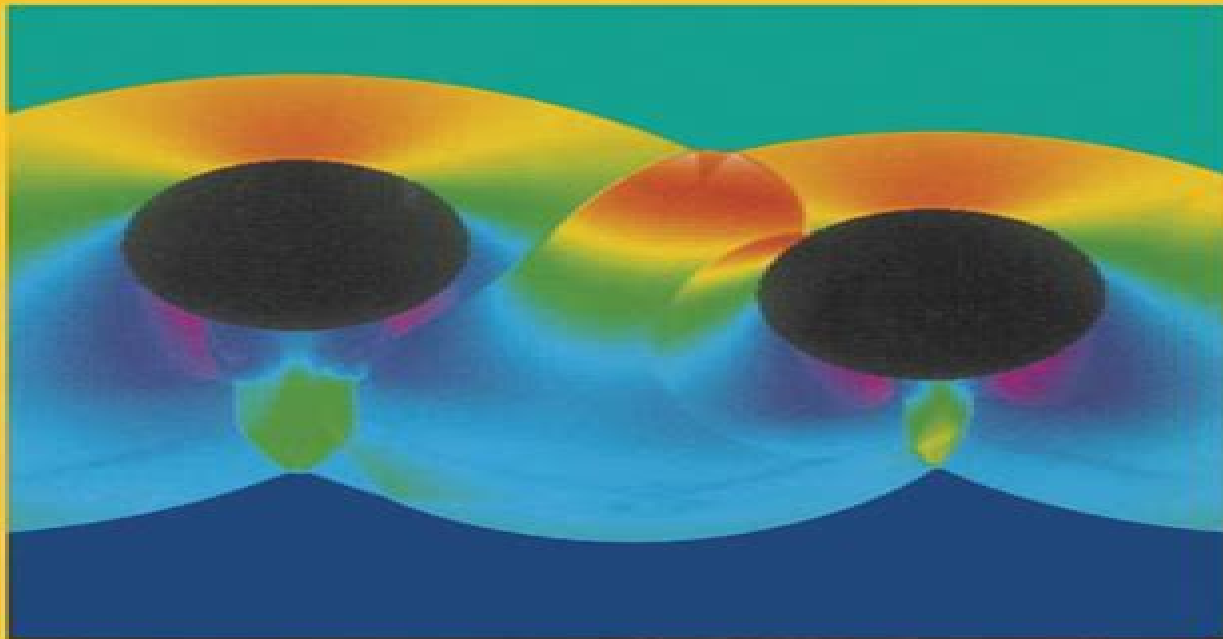


Alexandre J. Chorin • Jerrold E. Marsden

A Mathematical Introduction to Fluid Mechanics

Third Edition



Springer

Mathematical Introduction To Fluid Mechanics

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derivations so far contained only in research journals are made available here to a wider public

Introduction to Partial Differential Equations Aslak Tveito, Ragnar Winther, 2008-01-21 Combining both the classical theory and numerical techniques for partial differential equations this thoroughly modern approach shows the significance of computations in PDEs and illustrates the strong interaction between mathematical theory and the development of numerical methods Great care has been taken throughout the book to seek a sound balance between these techniques The authors present the material at an easy pace and exercises ranging from the straightforward to the challenging have been included In addition there are some projects suggested either to refresh the students memory of results needed in this course or to extend the theories developed in the text Suitable for undergraduate and graduate students in mathematics and engineering

Mathematical Theory of Compressible Viscous Fluids Eduard Feireisl, Trygve G. Karper, Milan Pokorný, 2016-11-25 This book offers an essential introduction to the mathematical theory of compressible viscous fluids The main goal is to present analytical methods from the perspective of their numerical applications Accordingly we introduce the principal theoretical tools needed to handle well posedness of the underlying Navier Stokes system study the problems of sequential stability and lastly construct solutions by means of an implicit numerical scheme Offering a unique contribution by exploring in detail the synergy of analytical and numerical methods the book offers a valuable resource for graduate students in mathematics and researchers working in mathematical fluid mechanics Mathematical fluid mechanics concerns problems that are closely connected to real world applications and is also an important part of the theory of partial differential equations and numerical analysis in general This book highlights the fact that numerical and mathematical analysis are not two separate fields of mathematics It will help graduate students and researchers to not only better understand problems in mathematical compressible fluid mechanics but also to learn something from the field of mathematical and numerical analysis and to see the connections between the two worlds Potential readers should possess a good command of the basic tools of functional analysis and partial differential equations including the function spaces of Sobolev type

Mathematical Problems of the Dynamics of Incompressible Fluid on a Rotating Sphere Yuri N. Skiba, 2017-09-21 This book presents selected mathematical problems involving the dynamics of a two dimensional viscous and ideal incompressible fluid on a rotating sphere In this case the fluid motion is completely governed by the barotropic vorticity equation BVE and the viscosity term in the vorticity equation is taken in its general form which contains the derivative of real degree of the spherical Laplace operator This work builds a bridge between basic concepts and concrete outcomes by pursuing a rich combination of theoretical analytical and numerical approaches and is recommended for specialists developing mathematical methods for application to problems in physics hydrodynamics meteorology and geophysics as well for upper undergraduate or graduate students in the areas of dynamics of incompressible fluid on a rotating sphere theory of functions on a sphere and flow stability

Introduction to Optimization Pablo Pedregal, 2006-03-04 This undergraduate textbook introduces students of science and engineering to the

fascinating field of optimization It is a unique book that brings together the subfields of mathematical programming variational calculus and optimal control thus giving students an overall view of all aspects of optimization in a single reference As a primer on optimization its main goal is to provide a succinct and accessible introduction to linear programming nonlinear programming numerical optimization algorithms variational problems dynamic programming and optimal control Prerequisites have been kept to a minimum although a basic knowledge of calculus linear algebra and differential equations is assumed

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