

Applied Mathematics and
Mathematical Computation 6

Vortex Structures in a Stratified Fluid

Order from chaos

Sergey I. Voropayev
and
Yakov D. Afanasyev



CHAPMAN & HALL

Vortex Structures In A Stratified Fluid Order From Chaos Applied Mathematics

K.W. Morton

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

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Vortex Structures in a Stratified Fluid Sergey I. Voropayev, Y.D. Afanasyev, 1994-05-15 A fully systematic treatment of the dynamics of vortex structures and their interactions in a viscous density stratified fluid is provided by this book. The various compact vortex structures such as monopoles, dipoles, quadrupoles, as well as more complex ones, are considered theoretically from a physical point of view. Another essential feature of the book is the close combination of theoretical analyses with numerous examples of real flows. The book further provides real physical insight and base for postgraduate students specializing in geophysical and applied fluid dynamics. Among the family of vortex structures considered in the book, the most remarkable are the vortex dipoles. These are fundamental elements of the complex chaotic flows associated with the term two-dimensional turbulence. The appearance of these structures in initially chaotic flows is currently of great interest because of a myriad of geophysical applications. Specific examples include the mushroom-like currents discovered from satellite images of the upper ocean. The book is well illustrated with many original photographs, some in colour and diagrams. **Mathematical**

Models in Boundary Layer Theory O.A. Oleinik, V.N. Samokhin, 2018-05-02 Since Prandtl first suggested it in 1904, boundary layer theory has become a fundamental aspect of fluid dynamics. Although a vast literature exists for theoretical and experimental aspects of the theory, for the most part, mathematical studies can be found only in separate scattered articles. *Mathematical Models in Boundary Layer Theory* offers the first systematic exposition of the mathematical methods and main results of the theory. Beginning with the basics, the authors detail the techniques and results that reveal the nature of the equations that govern the flow within boundary layers and ultimately describe the laws underlying the motion of fluids with small viscosity. They investigate the questions of existence and uniqueness of solutions, the stability of solutions with respect to perturbations, and the qualitative behavior of solutions and their asymptotics. Of particular importance for applications, they present methods for an approximate solution of the Prandtl system and a subsequent evaluation of the rate of convergence of the approximations to the exact solution. Written by the world's foremost experts on the subject, *Mathematical Models in Boundary Layer Theory* provides the opportunity to explore its mathematical studies and their importance to the nonlinear theory of viscous and electrically conducting flows, the theory of heat and mass transfer, and the dynamics of reactive and multiphase media. With the theory's importance to a wide variety of applications, applied mathematicians, especially those in fluid dynamics, along with engineers of aeronautical and ship design, will undoubtedly welcome this authoritative state-of-the-art treatise. **Asymptotic Treatment of Differential Equations** A.

Georgescu, 1995-05-15 The main definitions and results of asymptotic analysis and the theory of regular and singular perturbations are summarized in this book. They are applied to the asymptotic study of several mathematical models from mechanics, fluid dynamics, statistical mechanics, meteorology, and elasticity. Due to the generality of presentation, this applications-oriented book is suitable for the solving of differential equations from any other field of interest. *Spectral*

Computations for Bounded Operators Mario Ahues, Alain Largillier, Balmohan Limaye, 2001-02-26 Exact eigenvalues, eigenvectors and principal vectors of operators with infinite dimensional ranges can rarely be found. Therefore one must approximate such operators by finite rank operators then solve the original eigenvalue problem approximately. Serving as both an outstanding text for graduate students and as a source of current results for *Continuous Stochastic Calculus with Applications to Finance* Michael Meyer, 2000-10-25 The prolonged boom in the US and European stock markets has led to increased interest in the mathematics of security markets, most notably in the theory of stochastic integration. This text gives a rigorous development of the theory of stochastic integration as it applies to the valuation of derivative securities. It includes all the tools necessary.

Variational Theories for Liquid Crystals E.G. Virga, 2018-12-12 Essentially there are two variational theories of liquid crystals explained in this book. The theory put forward by Zocher, Oseen and Frank is classical, while that proposed by Ericksen is newer in its mathematical formulation, although it has been postulated in the physical literature for the past two decades. The newer theory provides a better explanation of defects in liquid crystals, especially of those concentrated on lines and surfaces which escape the scope of the classical theory. The book opens the way to the wealth of applications that will follow.

Weak and Measure-Valued Solutions to Evolutionary PDEs J. Malek, J. Necas, M. Rokyta, M. Ruzicka, 2019-08-16 This book provides a concise treatment of the theory of nonlinear evolutionary partial differential equations. It provides a rigorous analysis of non-Newtonian fluids and outlines its results for applications in physics, biology and mechanical engineering.

Material Inhomogeneities in Elasticity G.A. Maugin, 2020-09-10 Self-contained, this book presents a thorough introduction to the complementary notions of physical forces and material or configurational forces. All the required elements of continuum mechanics, deformation theory and differential geometry are also covered. This book will be a great help to many, whilst revealing to others a rather new facet of continuum mechanics in general and elasticity in particular. An organized exposition of continuum mechanics on the material manifold is given, which allows for the consideration of material inhomogeneities in their most appropriate framework. In such a frame, the nonlinear elasticity of anisotropic inhomogeneous materials appears to be a true field theory. Extensions to the cases of electroelasticity and magnetoelasticity are then straightforward. In addition, this original approach provides systematic computational means for the evaluation of characteristic parameters which are useful in various branches of applied mechanics and mathematical physics. This is the case for path-independent integrals and energy release rates in brittle fracture, the influence of electromagnetic fields on fracture criteria such as in ceramics, the notion of momentum of electromagnetic fields in matter in optics and the perturbation of solitons propagating in elastic dispersive systems.

Robust Computational Techniques for Boundary Layers Paul Farrell, Alan Hegarty, John M. Miller, Eugene O'Riordan, Grigory I. Shishkin, 2000-03-30 Current standard numerical methods are of little use in solving mathematical problems involving boundary layers. In *Robust Computational Techniques for Boundary Layers*, the authors construct numerical methods for solving problems involving

differential equations that have non smooth solutions with singularities related to boundary layers They pres *Continuum Models for Phase Transitions and Twinning in Crystals* Mario Pitteri,G. Zanzotto,2002-06-27 Continuum Models for Phase Transitions and Twinning in Crystals presents the fundamentals of a remarkably successful approach to crystal thermomechanics Developed over the last two decades it is based on the mathematical theory of nonlinear thermoelasticity in which a new viewpoint on material symmetry motivated by molecular theories plays a c **Revival: Numerical Solution Of Convection-Diffusion Problems (1996)** K.W. Morton,2019-02-25 Accurate modeling of the interaction between convective and diffusive processes is one of the most common challenges in the numerical approximation of partial differential equations This is partly due to the fact that numerical algorithms and the techniques used for their analysis tend to be very different in the two limiting cases of elliptic and hyperbolic equations Many different ideas and approaches have been proposed in widely differing contexts to resolve the difficulties of exponential fitting compact differencing number upwinding artificial viscosity streamline diffusion Petrov Galerkin and evolution Galerkin being some examples from the main fields of finite difference and finite element methods The main aim of this volume is to draw together all these ideas and see how they overlap and differ The reader is provided with a useful and wide ranging source of algorithmic concepts and techniques of analysis The material presented has been drawn both from theoretically oriented literature on finite differences finite volume and finite element methods and also from accounts of practical large scale computing particularly in the field of computational fluid dynamics **Mathematical Reviews** ,2003 **The Cumulative Book Index** ,1995 A world list of books in the English language **Numerical Hamiltonian Problems** J. M. Sanz-Serna,M. P. Calvo,1994-05-15 The purpose of this book is to present a unified introduction to the interdisciplinary and growing field of symplectic integration of Hamiltonian problems These problems appear frequently in physics and other sciences and recent investigations suggest that they should be simulated by symplectic integrators i e by numerical methods that preserve the symplectic structure of phase space thus reproducing the main feature of Hamiltonian dynamics The authors explain in detail how to derive analyse and use symplectic integrators Virtually all currently available symplectic methods are reported using a coherent notation Numerical Hamiltonian Problems includes five preliminary chapters on Hamiltonian problems and numerical methods so that very little background knowledge should be required Numerical examples are provided throughout **Nonlinear Ill-Posed Problems** A.N. Tikhonov,A.S. Leonov,A.G. Yagola,1998 Professor A N Tikhonov was the founder of nonlinear ill posed problem theory This two volume book introduces the reader to the theory and shows its applications in the natural sciences The first volume introduces the foundations of the theory and provides the background necessary for the design of numerical methods The second volume presents the finite dimensional variants and modification of these methods to help readers use current computer software It considers applications in linear algebra vibrational spectroscopy astrophysics and medicine **Nonlinear Ill-posed Problems** Andreĭ Nikolaevich Tikhonov,A. S. Leonov,Anatoliĭ Grigor'evich ĬAgola,1998 Bulletin

Institute of Mathematics and Its Applications,1993 Wavelets and Multiscale Signal Processing Albert Cohen,Robert D. Ryan,1995-09 Since their appearance in mid 1980s wavelets and more generally multiscale methods have become powerful tools in mathematical analysis and in applications to numerical analysis and signal processing This book is based on *Ondelettes et Traitement Numerique du Signal* by Albert Cohen It has been translated from French by Robert D Ryan and extensively updated by both Cohen and Ryan It studies the existing relations between filter banks and wavelet decompositions and shows how these relations can be exploited in the context of digital signal processing Throughout the book concentrates on the fundamentals It begins with a chapter on the concept of multiresolution analysis which contains complete proofs of the basic results The description of filter banks that are related to wavelet bases is elaborated in both the orthogonal case Chapter 2 and in the biorthogonal case Chapter 4 The regularity of wavelets how this is related to the properties of the filters and the importance of regularity for the algorithms are the subjects of Chapter 3 Chapter 5 looks at multiscale decomposition as it applies to stochastic processing in particular to signal and image processing **Applied mechanics reviews** ,1948 Recent Trends In Chaotic, Nonlinear And Complex Dynamics Jan Awrejcewicz,Rajasekar Shanmuganathan,Minvydas Ragulskis,2021-07-26 In recent years enormous progress has been made on nonlinear dynamics particularly on chaos and complex phenomena This unique volume presents the advances made in theory analysis numerical simulation and experimental realization promising novel practical applications on various topics of current interest on chaos and related fields of nonlinear dynamics Particularly the focus is on the following topics synchronization vs chaotic phenomena chaos and its control in engineering dynamical systems fractal based dynamics uncertainty and unpredictability measures vs chaos Hamiltonian systems and systems with time delay local global stability bifurcations and their control applications of machine learning to chaos nonlinear vibrations of lumped mass mechanical mechatronic systems rigid body and coupled oscillator dynamics governed by ODEs and continuous structural members beams plates shells vibrations governed by PDEs patterns formation chaos in micro and nano mechanical systems chaotic reduced order models energy absorption harvesting from chaotic chaos vs resonance phenomena chaos exhibited by discontinuous systems chaos in lab experiments The present volume forms an invaluable source on recent trends in chaotic and complex dynamics for any researcher and newcomers to the field of nonlinear dynamics

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