

Cambridge Monographs on Mechanics

Waves and Mean Flows

Second Edition



Oliver Bühler

CAMBRIDGE

Waves And Mean Flows Cambridge Monographs On Mechanics

Victor Raizer



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Waves and Mean Flows Oliver Bühler, 2014 *Waves and Mean Flows* Oliver Bühler, 2014-03-06 Interactions between waves and mean flows play a crucial role in understanding the long term aspects of atmospheric and oceanographic modelling Indeed our ability to predict climate change hinges on our ability to model waves accurately This book gives a modern account of the nonlinear interactions between waves and mean flows such as shear flows and vortices A detailed account of the theory of linear dispersive waves in moving media is followed by a thorough introduction to classical wave mean interaction theory The author then extends the scope of the classical theory and lifts its restriction to zonally symmetric mean flows It can be used as a fundamental reference a course text or by geophysicists and physicists needing a first introduction This second edition includes brand new material including a section on Langmuir circulations and the Craik Leibovich instability The author has also added exercises to aid students learning **Optical Remote Sensing of Ocean**

Hydrodynamics Victor Raizer, 2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1 4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean **Stochastic Transport in Upper Ocean Dynamics II** Bertrand Chapron, Dan Crisan, Darryl Holm, Etienne Mémin, Anna Radomska, 2023-10-03 This open access proceedings volume brings selected peer reviewed contributions presented at the Third Stochastic Transport in Upper Ocean Dynamics STUOD 2022 Workshop held virtually and in person at the Imperial College London UK September 26 29 2022 The STUOD project is supported by an ERC Synergy Grant and led by Imperial College London the National Institute for Research in Computer Science and Automatic Control INRIA and the French Research Institute for Exploitation of the Sea IFREMER The project aims to deliver new capabilities

for assessing variability and uncertainty in upper ocean dynamics It will provide decision makers a means of quantifying the effects of local patterns of sea level rise heat uptake carbon storage and change of oxygen content and pH in the ocean Its multimodal monitoring will enhance the scientific understanding of marine debris transport tracking of oil spills and accumulation of plastic in the sea All topics of these proceedings are essential to the scientific foundations of oceanography which has a vital role in climate science Studies convened in this volume focus on a range of fundamental areas including Observations at a high resolution of upper ocean properties such as temperature salinity topography wind waves and velocity Large scale numerical simulations Data based stochastic equations for upper ocean dynamics that quantify simulation error Stochastic data assimilation to reduce uncertainty These fundamental subjects in modern science and technology are urgently required in order to meet the challenges of climate change faced today by human society This proceedings volume represents a lasting legacy of crucial scientific expertise to help meet this ongoing challenge for the benefit of academics and professionals in pure and applied mathematics computational science data analysis data assimilation and oceanography

Marine Hydrocarbon Spill Assessments Oleg Makarynskyy, 2021-08-19 Marine Hydrocarbon Spill Assessments From Risk of Spill through to Probabilities Estimates describes the methods used for estimating hydrocarbon spill risks and the potential consequences Throughout the book mathematical methodologies and algorithms are included to aid the reader in the solving of applied tasks presented Marine Hydrocarbon Spill Assessments From Risk of Spill through to Probabilities Estimates provides a fundamental understanding of the oil properties and processes which determine the persistence and impacts of oils in the marine environment It informs the reader of the current research in hydrocarbon spill assessments starting from an assessment of a risk of a spill and moving on to modelling approaches to impact assessments laboratory toxicity assessments field impact assessments and response options and prevention and contingency planning Identifies efficient solutions to protect coastal regions from the marine pollution of hydrocarbon spills Includes case studies examining and analyzing spills providing lessons to prevent these in the future Covers the science of oil spills from risk analysis to cleanup and the effects on the environment

Wave Interactions and Fluid Flows Alex D. D. Craik, 1985 Wave Interactions and Fluid Flows is a coherent up to date and comprehensive account of theory and experiment on wave interaction phenomena both in fluids at rest and in shear flows On the one hand this includes water waves internal waves their evolution and interaction and associated wave driven mean flows on the other phenomena of nonlinear hydrodynamic stability especially those leading to the onset of turbulence Close similarities and crucial differences exist between these two classes of phenomena and their treatment in this single study provides a particularly valuable bridge between more specialised but related disciplines As a result this unique book will appeal to researchers and graduate students of fluid mechanics in its widest sense including the study of wave interaction phenomena in such diverse fields as meteorology aeronautical and hydraulic engineering optics solar physics and population dynamics Dr Craik is an active researcher of long

standing at the University of St Andrews and has wide experience in the field of fluid mechanics Ocean Dynamics Dirk Olbers, Jürgen Willebrand, Carsten Eden, 2012-04-27 Ocean Dynamics is a concise introduction to the fundamentals of fluid mechanics non equilibrium thermodynamics and the common approximations for geophysical fluid dynamics presenting a comprehensive approach to large scale ocean circulation theory The book is written on the physical and mathematical level of graduate students in theoretical courses of physical oceanography meteorology and environmental physics An extensive bibliography and index extensive side notes and recommendations for further reading and a comparison with the specific atmospheric physics where applicable makes this volume also a useful reading for researchers Each of the four parts of the book fundamental laws common approximations ocean waves oceanic turbulence and eddies and selected aspects of ocean dynamics starts with elementary considerations blending then classical topics with more advanced developments of fluid mechanics and theoretical oceanography The last part covers the theory of the global wind driven circulation in homogeneous and stratified regimes the circulation and overturning in the Southern Ocean and the global meridional overturning and thermohaline driven circulation Emphasis is placed on simple physical models rather than access to extensive numerical results enabling students to understand and reproduce the complex theory mostly by analytical means All equations and models are derived in detail and illustrated by numerous figures The appendix provides short excursions into the mathematical background such as vector analysis statistics and differential equations **Topographic Effects in Stratified Flows** Peter G. Baines, 2022-01-27 Explore the nature of density stratified flow over and around topography including applications to the flow of the atmosphere and ocean Magnetoconvection N. O. Weiss, M. R. E. Proctor, 2014-10-30 Leading experts present the current state of knowledge of the subject of magnetoconvection from the viewpoint of applied mathematics **Theory and Modeling of Rotating Fluids** Keke Zhang, Xinhao Liao, 2017-05-23 A systematic account of the theory and modelling of rotating fluids that highlights the remarkable advances in the area and brings researchers and postgraduate students in atmospheres oceanography geophysics astrophysics and engineering to the frontiers of research Sufficient mathematical and numerical detail is provided in a variety of geometries such that the analysis and results can be readily reproduced and many numerical tables are included to enable readers to compare or benchmark their own calculations Traditionally there are two disjointed topics in rotating fluids convective fluid motion driven by buoyancy discussed by Chandrasekhar 1961 and inertial waves and precession driven flow described by Greenspan 1968 Now for the first time in book form a unified theory is presented for three topics thermal convection inertial waves and precession driven flow to demonstrate that these seemingly complicated and previously disconnected problems become mathematically simple in the framework of an asymptotic approach that incorporates the essential characteristics of rotating fluids

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