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Introduction to Geophysical Fluid Dynamics Benoit Cushman-Roisin,Jean-Marie Beckers,2011-08-26 Introduction to Geophysical Fluid Dynamics provides an introductory level exploration of geophysical fluid dynamics GFD the principles governing air and water flows on large terrestrial scales Physical principles are illustrated with the aid of the simplest existing models and the computer methods are shown in juxtaposition with the equations to which they apply It explores contemporary topics of climate dynamics and equatorial dynamics including the Greenhouse Effect global warming and the El Nino Southern Oscillation Combines both physical and numerical aspects of geophysical fluid dynamics into a single affordable volume Explores contemporary topics such as the Greenhouse Effect global warming and the El Nino Southern Oscillation Biographical and historical notes at the ends of chapters trace the intellectual development of the field Recipient of the 2010 Wernaers Prize awarded each year by the National Fund for Scientific Research of Belgium FNR FNRS

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Geophysical Fluid Dynamics Vladimir Zeitlin,2018-02-02 Geophysical fluid dynamics examines the dynamics of stratified and turbulent motion of fluids in the ocean and outer core and of gases in the atmosphere This book explains key notions and fundamental processes of the dynamics of large and medium scale atmospheric and oceanic motions from the unifying viewpoint of the rotating shallow water model The model plays a distinguished role in geophysical fluid dynamics It has been used for about a century for conceptual understanding of various phenomena for elaboration of approaches and methods to be used later in more complete models for development and testing of numerical codes and for many other purposes In spite of its simplicity the model grasps essential features of the complete primitive equations models being their vertically averaged version and gives an intuitive representation and clear vision of principal dynamical processes This book is a combination of a course on geophysical fluid dynamics Part 1 with explanations and illustrations of fundamentals and problems as well as a more advanced treatise of a range of principal dynamical phenomena Part 2 including recently arisen approaches and applications Part 3 Mathematics and physics underlying dynamical phenomena are explained with necessary demonstrations Yet an important goal of the book is to develop the reader s physical intuition and qualitative insights

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

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Harindra Joseph Fernando,2012-12-11 With major implications for applied physics engineering and the natural and social

sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field this two volume handbook presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the field along with critical discussions of environmental sustainability related to engineering aspects The first volume provides a comprehensive overview of the fundamentals and the second volume explores the interactions between engineered structures and natural flows

University Curricula in the Marine Sciences and Related Fields, 1973 **Fluid Dynamics for Global Environmental Studies** Dept. Earth Sys Sci. Tech., Interdis.Grad Sch Engg Sci, Kyushu Univ.,2017-04-06 This book introduces the basic concepts of environmental fluid dynamics It is intended for use by students researchers engineers and specialists working not only in general fluid research but also in the atmospheric and oceanic research fields The Earth is covered by atmosphere and oceans and is exposed to solar wind Therefore the knowledge of fluid dynamics is essential for tackling its environmental issues Although many textbooks have treated fluid dynamics practically no book has been published that clearly describes all essential ideas from the fundamentals of fluid dynamics to advanced environmental sciences with careful sequential explanations of the governing mathematics This book has been developed to solve these educational problems and has actually been in use in lectures in the graduate school of Kyushu University for more than 15 years Fundamentals of Ocean Climate Models Stephen Griffies,2018-06-05 This book sets forth the physical mathematical and numerical foundations of computer models used to understand and predict the global ocean climate system Aimed at students and researchers of ocean and climate science who seek to understand the physical content of ocean model equations and numerical methods for their solution it is largely general in formulation and employs modern mathematical techniques It also highlights certain areas of cutting edge research Stephen Griffies presents material that spans a broad spectrum of issues critical for modern ocean climate models Topics are organized into parts consisting of related chapters with each part largely self contained Early chapters focus on the basic equations arising from classical mechanics and thermodynamics used to rationalize ocean fluid dynamics These equations are then cast into a form appropriate for numerical models of finite grid resolution Basic discretization methods are described for commonly used classes of ocean climate models The book proceeds to focus on the parameterization of phenomena occurring at scales unresolved by the ocean model which represents a large part of modern oceanographic research The final part provides a tutorial on the tensor methods that are used throughout the book in a general and elegant fashion to formulate the equations **BASICS OF ATMOSPHERIC SCIENCE, SECOND EDITION** CHANDRASEKAR, A.,2022-09-01 The new edition of this book continues to provide a detailed treatment of various aspects of atmospheric phenomena and their underlying physical principles It offers a study of both physical and dynamical aspects of the atmosphere After discussing the fundamental processes such as origin of the atmosphere atmospheric thermodynamics atmospheric radiation and cloud and precipitation formation the book focuses on equipping students with a thorough

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Special Issue on Salinity, 2008 Fluid Mechanics James A. Liggett, 1994 Provides a grounding in fluid mechanics with applications directed at shallow water hydraulics oceanography and wave mechanics circulation in large bodies of water and transport Examples problems and historical notes are also included provides a grounding in fluid mechanics with applications directed at shallow water hydraulics oceanography and wave mechanics circulation in large bodies of water and transport Examples problems and historical notes are also included

Curricula in the Atmospheric and Oceanographic Sciences American Meteorological Society, 1984 **Geophysical Fluid Dynamics for Oceanographers** Joseph J. Von Schwind, 1980 *Curricula in the Atmospheric, Oceanic and Related Sciences*, 1988 **Bulletin** World Meteorological Organization, 2007

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