

Atmosphere-Ocean Dynamics

Adrian E. Gill



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Atmosphere Ocean Dynamics Gill

Judith A. Curry, Peter J. Webster



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Atmosphere—Ocean Dynamics Adrian E. Gill, 2016-06-03 Atmosphere Ocean Dynamics deals with a systematic and unified approach to the dynamics of the ocean and atmosphere. The book reviews the relationship of the ocean atmosphere and how this system functions. The text explains this system through radiative equilibrium models; the book also considers the greenhouse effect, the effects of convection and of horizontal gradients, and the variability in radiative driving of the earth. Equations in the book show the properties of a material element, mass conservation, the balance of scalar quantity such as salinity, and the mathematical behavior of the ocean and atmosphere. The book also addresses how the ocean atmosphere system tends to adjust to equilibrium both in the absence and presence of driving forces such as gravity. The text also explains the effect of the earth's rotation on the system as well as the application of forced motions such as that produced by wind or temperature changes. The book explains tropical dynamics and the effects of variation of the Coriolis parameter with latitude. The text will be appreciated by meteorologists, environmentalists, students studying hydrology, and people working in general earth sciences.

Atmosphere-Ocean Dynamics Adrian E. Gill, 1982-12-12 A systematic unifying approach to the dynamics of the ocean and atmosphere is given in this book with emphasis on the larger scale motions from a few kilometers to global scale. The foundations of the subject, the equations of state and dynamical equations, are covered in some detail so that students with training in mathematics should find it a self-contained text. Knowledge of fluid mechanics is helpful but not essential. Simple mathematical models are used to demonstrate the fundamental dynamical principles with plentiful illustrations from field and laboratory. *International Geophysics Series* Adrian E. Gill, 1982 **Large-scale**

Atmosphere-ocean Dynamics: Analytical methods and numerical models John Norbury, Ian Roulstone, 2002 Publisher Description

Coupled Atmosphere-Ocean Dynamics Shang-Ping Xie, 2022-12-21 Coupled Atmosphere Ocean Dynamics of Climate Variability and Climate Change presents the patterns, mechanisms, and predictability of climate variability and anthropogenic climate change. Based on a graduate course the author has taught over 25 years, this book provides the physical foundation for those who are interested in fundamental questions such as why climate varies from one year to another, how predictable climate is, and how climate will change in the face of increasing greenhouse gases in the atmosphere. This is the first comprehensive and systematic treatment of this subject that simultaneously draws on the latest research and is accessible for graduate students. The book takes a step by step systematic approach to coupled ocean atmosphere interactions. This allows a wide range of comparative views: climate modes among and across different tropical ocean basins; ocean feedback on the atmosphere in and out of the tropics; and spontaneous internal oscillation versus externally forced climate change. Such comparative views offer unprecedented insight into the dynamics of climate variability and predictability. This book can be used as supplementary reading for advanced undergraduate students as coursework in climate dynamics, modeling variability and change, and as a reference book and research monograph for researchers in ocean

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Atmospheric Circulation Dynamics and Circulation Models Masaki Satoh, 2004-05-03 This book describes the methods used to construct general circulation models GCMs of the atmosphere and how such models perform in applications relating to the real climate and environmental systems Part 1 summarizes the physical processes involved Part 2 covers atmospheric structures Part 3 outlines basic steps for constructing GCMs Includes an appendix with basic data and mathematical formulae to enable readers to construct GCMs for themselves [Atmosphere, Ocean and Climate Dynamics](#)

John Marshall, R. Alan Plumb, 2007-12-19 For advanced undergraduate and beginning graduate students in atmospheric oceanic and climate science Atmosphere Ocean and Climate Dynamics is an introductory textbook on the circulations of the atmosphere and ocean and their interaction with an emphasis on global scales It will give students a good grasp of what the atmosphere and oceans look like on the large scale and why they look that way The role of the oceans in climate and paleoclimate is also discussed The combination of observations theory and accompanying illustrative laboratory experiments sets this text apart by making it accessible to students with no prior training in meteorology or oceanography Written at a mathematical level that is appealing for undergraduates and beginning graduate students Provides a useful educational tool through a combination of observations and laboratory demonstrations which can be viewed over the web Contains instructions on how to reproduce the simple but informative laboratory experiments Includes copious problems with sample answers to help students learn the material **Atmospheric and Oceanic Fluid Dynamics** Geoffrey K. Vallis, 2017-06-08

This second edition now in full color provides a unified and comprehensive treatment of the atmosphere and ocean for advanced students and researchers *Fluid Mechanics of the Atmosphere* Robert A. Brown, 1991-03-22 Fluid Mechanics of the Atmosphere presents the fundamental equations which govern most of the flow problems studied by atmospheric scientists The equations are derived in a systematic way that is intended to facilitate critical evaluation The goal of this text is twofold First the book supplies the student a background familiarity in the underlying physics behind the mathematics Second it explores some systematic methods of relating these physics to atmospheric problems including rotating frames of reference effects vorticity dynamics and turbulence effects on closure Stresses vorticity principles of scaling and turbulence Extensively illustrated Includes end of chapter summaries and problem sets Classroom tested for five years

Thermodynamics of Atmospheres and Oceans Judith A. Curry, Peter J. Webster, 1999-01-20 Basic Concepts Composition Structure and State First and Second Laws of Thermodynamics Transfer Processes Thermodynamics of Water Nucleation and Diffusional Growth Moist Thermodynamics Processes in the Atmosphere Static Stability of the Atmosphere and Ocean Cloud Characteristics and Processes Ocean Surface Exchanges of Heat and Freshwater Sea Ice Snow and Glaciers

Thermohaline Processes in the Ocean Special Topics Global Energy and Entropy Balances Thermodynamics Feedbacks in the Climate System Planetary Atmospheres and Surface Ice Appendices Subject Index *Fundamentals of Geophysical Hydrodynamics* Felix V. Dolzhansky, 2012-10-26 This newly translated book takes the reader from the basic principles and conservation laws of hydrodynamics to the description of general atmospheric circulation Among the topics covered are the Kelvin Ertel and Rossby Obukhov invariants quasi geostrophic equation thermal wind singular Helmholtz vortices derivation of the Navier Stokes equation Kolmogorov's flow hydrodynamic stability and geophysical boundary layers Generalizing V Arnold's approach to hydrodynamics the author ingeniously brings in an analogy of Coriolis forces acting on fluid with motion of the Euler heavy top and shows how this is used in the analysis of general atmospheric circulation This book is based on popular graduate and undergraduate courses given by F V Dolzhansky at the Moscow Institute of Physics and Technology and is the result of the author's highly acclaimed work in Moscow's Laboratory of Geophysical Hydrodynamics Each chapter is full of examples and figures exercises and hints motivating and illustrating both theoretical and experimental results The exposition is comprehensive yet user friendly in engaging and exploring the broad range of topics for students and researchers in mathematics physics meteorology and engineering **The Theory of Large-Scale Ocean Circulation** R. M. Samelson, 2011-06-27 Mounting evidence that human activities are substantially modifying the Earth's climate brings a new imperative to the study of the ocean's large scale circulation This textbook provides a concise but comprehensive introduction to the theory of large scale ocean circulation as it is currently understood and established Students and instructors will benefit from the carefully chosen chapter by chapter exercises This advanced textbook is invaluable for graduate students and researchers in the fields of oceanic atmospheric and climate sciences and other geophysical scientists as well as physicists and mathematicians with a quantitative interest in the planetary fluid environment **Dynamical Paleoclimatology** Barry Saltzman, 2002 The book discusses the ideas and creates a framework for building toward a theory of paleoclimate Using the rich and mounting array of observational evidence of climatic changes from geology geochemistry and paleontology Saltzman offers a dynamical approach to the theory of paleoclimate evolution and an expanded theory of climate Saltzman was a distinguished authority on dynamical meteorology This book provides a comprehensive framework based on dynamical system ideas for a theory of climate and paleoclimatic evolution which is intended for graduate students and research workers in paleoclimatology earth system studies and global change research The book includes an extensive bibliography of geological and physical dynamical references Written by the late Barry Saltzman who was a distinguished authority on dynamical meteorology This book provides a comprehensive framework based on dynamical system ideas for a theory of climate and paleoclimatic evolution The book includes extensive bibliography of geological and physical dynamical references *Remote Sensing of Atmosphere and Ocean from Space: Models, Instruments and Techniques* Frank S. Marzano, Guido Visconti, 2003-01-31 This book is a collection of the lectures held at the International Summer School ISSAOS

2000 in L Aquila Italy given by invited lecturers coming from both Europe and the USA The goal of the book is to provide a broad panorama of spaceborne remote sensing techniques at both microwave and visible infrared bands and by both active and passive sensors for the retrieval of atmospheric and oceanic parameters A significant emphasis is given to the physical modeling background instrument potential and limitations inversion methods and applications Topics on international remote sensing programs and assimilation techniques into numerical weather forecast models are also touched The main purpose of the book is to offer to young scientists Ph D or equivalent students and to all who would like to have a broad spectrum understanding of spaceborne remote sensing capabilities introductory material to each remote sensing topic written by the most qualified experts in the field

Ocean Hydrodynamics of the Japan and East China Seas T. Ichiye, 2000-04-01 The Japan and East China seas are both marginal seas but have different oceanographical features the former is a deep basin filled with polar water but a jet like current in the upper layer and the latter is a wide continental shelf with two large rivers This book provides the first synthesis of information on the circulation hydrography coastal phenomena tides turbidity and wind waves of these seas Circulation caused by wind pressure distributions and other effects is discussed with the aid of analytical numerical and hydraulic models many of which can also be applied to problems in other seas New oceanographic techniques covered include remote sensing drifter tracking and moored current meter system providing information useful to both researchers and students

Geophysical Fluid Dynamics Vladimir Zeitlin, 2018 For the dynamics of large and medium scale motions in the oceans and the atmosphere a simplified rotating shallow water model obtained by vertical averaging is used throughout the book in order to explain the fundamentals and to give in depth treatment of important dynamical processes

Introduction to Circulating Atmospheres Ian N. James, I. N. James, 1995-10-19 An advanced undergraduate text on the large scale circulation of the atmosphere

Physical Oceanography of Continental Shelves K.H. Brink, 2023-09-12 An authoritative graduate textbook and professional reference on the physical dynamics of the coastal ocean This book provides an up to date systematic treatment of the processes governing the velocity pressure temperature and salinity of the coastal ocean Written by a leading expert with decades of experience with theory observations and numerical models it builds on the idea that knowledge of fundamental phenomena allows for an understanding of continental shelf waters globally Featuring a wealth of ocean observations from a wide variety of locales Physical Oceanography of Continental Shelves is an essential resource for both students and researchers on this critical region of the world's oceans Covers the physical dynamics and properties of the coastal ocean synthesizing theory and global observations Topics include turbulent boundary layers wind driving coastal trapped waves the inner shelf tides buoyancy currents instabilities and connections with the deep open ocean Ideal for graduate students in physical oceanography Includes exercises to strengthen understanding and draws on the author's experience teaching the subject A must for oceanographers and engineers seeking a comprehensive synthesis of continental shelf processes

Modeling Methods for Marine Science David M.

Glover, William J. Jenkins, Scott C. Doney, 2011-06-02 This advanced textbook on modeling data analysis and numerical techniques for marine science has been developed from a course taught by the authors for many years at the Woods Hole Oceanographic Institute The first part covers statistics singular value decomposition error propagation least squares regression principal component analysis time series analysis and objective interpolation The second part deals with modeling techniques finite differences stability analysis and optimization The third part describes case studies of actual ocean models of ever increasing dimensionality and complexity starting with zero dimensional models and finishing with three dimensional general circulation models Throughout the book hands on computational examples are introduced using the MATLAB programming language and the principles of scientific visualization are emphasised Ideal as a textbook for advanced students of oceanography on courses in data analysis and numerical modeling the book is also an invaluable resource for a broad range of scientists undertaking modeling in chemical biological geological and physical oceanography

Climate System Modeling Kevin E. Trenberth, 1992 Climate Systems Modeling presents an interdisciplinary and comprehensive study of the dynamics of the whole global system As a comprehensive text it will appeal to students and researchers concerned with any aspect of climatology and the study of related topics in the broad earth and environmental sciences

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