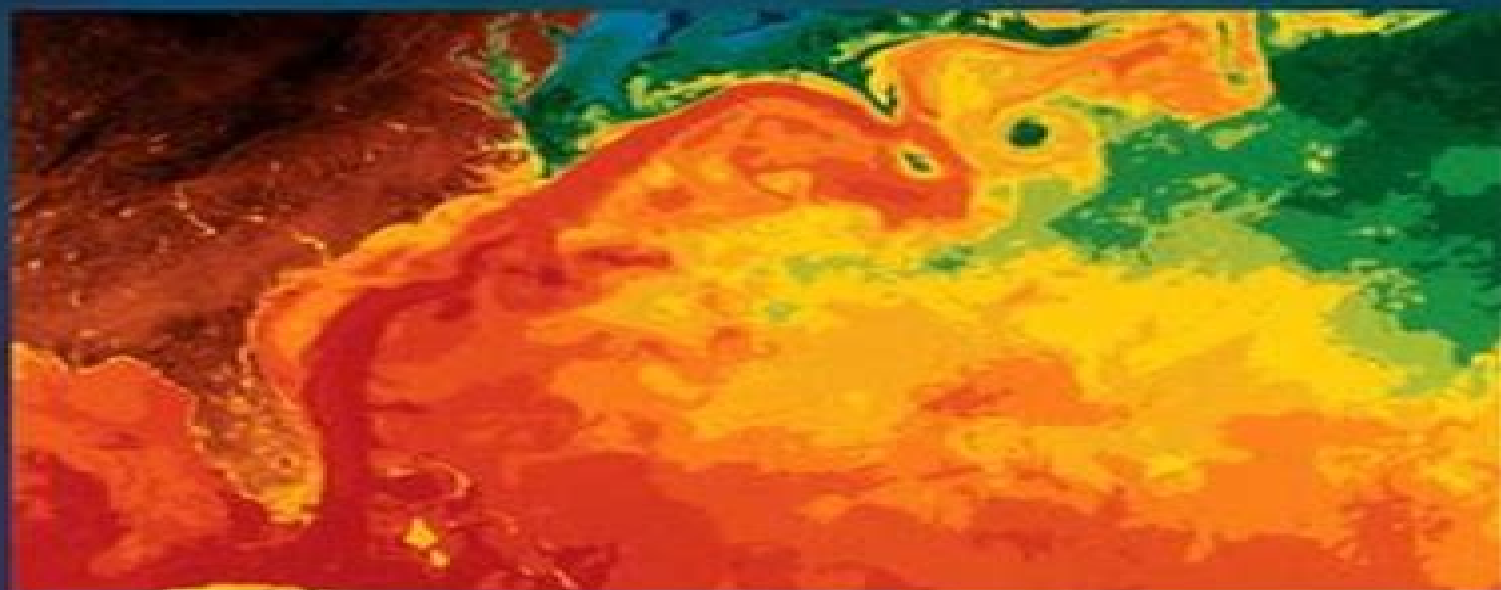




SIXTH EDITION

Descriptive Physical Oceanography

AN INTRODUCTION



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emphasizing the interactions between them Chapter 3 deals with the surface circulation including mesoscale eddies using a minimum of mathematics Chapter 4 reviews the history of ideas about ocean circulation with special reference to the North Atlantic gyre and Chapter 5 describes the major current systems at high and low latitudes The final Chapter returns to the theme of ocean atmosphere interaction especially the global transport of heat and freshwater and the formation of sub surface water masses Fully illustrated in four colours Fully illustrated in four colours [U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973](#) United States. Environmental Protection Agency. Library Systems Branch, 1974

Introductory Dynamic Oceanography Stephen Pond, George L. Pickard, 1978 **Ocean Circulation** Open Open University, 2001-09-17 This second edition retains the general structure of the first edition but has been updated in the light of recent oceanographic research and improved as a teaching text on the basis of feedback from past students and other readers Notable additions include new sections addressing the topic of numerical modelling and more discussion of natural oscillations in the ocean atmosphere system previously confined to the El Niño phenomenon In particular the Chapter on the North Atlantic now includes a discussion of the North Atlantic Oscillation as well as of the Great Salinity Anomaly In the final Chapter treatment of water mass formation has been updated to reflect recent ideas about the processes involved and how they relate to climatic change over different time scales from decades to millennia High quality full colour diagrams Substantial chapter summaries ideal for revision Answers hints and notes for questions at back of the book **Introduction to Physical Oceanography** John A. Knauss, Newell Garfield, 2016-12-02 For decades previous editions of John Knauss's seminal work have struck a balance between purely descriptive texts and mathematically rigorous ones giving a wide range of marine scientists access to the fundamental principles of physical oceanography Newell Garfield continues this tradition delivering valuable updates that highlight the book's resourceful presentation and concise effectiveness The authors include historical and current research along with a 12 page color insert to illuminate their perspective that the world ocean is tumultuous and continually helps to shape global environmental processes The Third Edition builds a solid foundation that readers will find straightforward and lucid It presents valuable insight into our understanding of the world ocean by encompassing essential oceanic processes such as the transfer of heat across the ocean surface the distribution of temperature and salinity and the effect of the earth's rotation on the ocean Providing sensible and well defined explanations of the roles played by a stratified ocean global balances and equations of motion Discussing cogent topics such as major currents tides waves coastal oceans semienclosed seas and sound and optics **Introduction to Physical Oceanography** Robert Henry Stewart, 2004 [Book Catalog of the Library and Information Services Division: Shelf list catalog](#) Environmental Science Information Center. Library and Information Services Division, 1977 **Book catalog of the Library and Information Services Division** Environmental Science Information Center. Library and Information Services Division, 1977 *University of California Union Catalog of Monographs Cataloged by the Nine*

Campuses from 1963 Through 1967: Subjects University of California (System). Institute of Library Research, University of California, Berkeley, 1972 **Collected Reprints** ,1970 Introductory Dynamical Oceanography Stephen Pond, George L. Pickard, 2013-10-22 Introductory Dynamical Oceanography 2nd ed provides an introduction to Dynamical Physical Oceanography at a level suitable for senior year undergraduate students in the sciences and for graduate students entering oceanography It aims to present the basic objectives procedures and successes and to state some of the present limitations of dynamical oceanography and its relations to descriptive physical oceanography The first edition has been thoroughly revised and updated and the new work includes reference to the Practical Salinity Scale 1978 the International Equation of State 1980 and the beta spiral technique for calculating absolute currents from the density distribution In addition the description of mixed layer models has been updated and the chapters on Waves and on Tides have been substantially revised and enlarged with emphasis on internal waves in the Waves chapter While the text is self contained readers are recommended to acquaint themselves with the general aspects of descriptive synoptic oceanography in order to be aware of the character of the ocean which the dynamical oceanographer is attempting to explain by referring to Pickard and Emery's Descriptive Physical Oceanography 4th edition **Curricula in the Atmospheric, Oceanic, Hydrologic, and Related Sciences** ,1998

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