



Dynamical Oceanography

By Henk A. Dijkstra

Springer Okt 2010, 2010. Taschenbuch. Book Condition: Neu. 238x157x28 mm. This item is printed on demand - Print on Demand Titel. - This textbook provides a mathematical introduction to the theory of large-scale ocean circulation. It is accessible for readers with an elementary knowledge of mathematics and physics, including continuum mechanics and solution methods for ordinary differential equations. At the end of each chapter several exercises are formulated. Many of these are aimed to further develop methodological skills and to get familiar with the physical concepts. New material is introduced in only a few of these exercises. Fully worked out answers to all exercises can be downloaded from the book s web site. This textbook provides a mathematical introduction to the theory of large-scale ocean circulation and is accessible for readers with an elementary knowledge of mathematics and physics, including continuum mechanics and solution methods for ordinary differential equations. The book consists of four parts. Part I (chapters 1 - 4) is a very brief introduction to ocean circulation and the mathematical formulation of the governing equations of ocean flows. In addition, concepts are introduced that are necessary to describe and understand large-scale ocean currents. In part II (chapters 5 -...



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