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Lectures on Geophysical Fluid Dynamics (Hardback)

By Rick Salmon

Oxford University Press Inc, United States, 1998. Hardback. Condition: New. New.. Language: English . Brand New Book ***** Print on Demand *****.Lectures on Geophysical Fluid Dynamics offers an introduction to several topics in theoretical geophysical fluid dynamics, including the theory of large-scale ocean circulation, geostrophic turbulence, and Hamiltonian fluid dynamics. The book is based on an introductory course in dynamical oceanography offered to first-year graduate students at Scripps Institution of Oceanography. Each chapter is a self-contained introduction to its particular subject, and makes few specific references to other chapters. Chapter 1 examines the relationship between the molecular and continuum models of the fluid, and between the Eulerian and Lagrangian descriptions of the latter. Chapter 2 is a broad introduction to the fluid dynamics of rotating, stratified flows. Chapter 3 addresses large-scale ocean circulation. Chapters 4, 5 and 6 discuss the theory of turbulence, including elementary ideas based on vorticity laws (Chapter 4), statistical turbulence theory (Chapter 5), and the applications of these ideas to quasigeostrophic flows in the Earth's oceans and atmosphere (Chapter 6). Chapter 7 surveys Hamiltonian fluid dynamics, including the interaction between waves and currents, and balanced approximations to nearly geostrophic flow. Overall, the emphasis is on physical ideas rather than mathematical techniques. Readers are...

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