



Waves in the Ocean and Atmosphere: Introduction to Wave Dynamics

By Joseph Pedlosky

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A study of the fundamental theory of waves appropriate for first year graduate students in oceanography, meteorology and associated sciences. Starting with an elementary overview of the basic wave concept, specific wave phenomena are then examined, including: surface gravity waves, internal gravity waves, lee waves, waves in the presence of rotation, and geostrophic adjustment. Each wave topic is used to introduce either a new technique or concept in general wave theory. Emphasis is placed on connectivity between the various subjects and on the physical interpretation of the mathematical results. The book contains numerous exercises at the end of the respective chapters.

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Review

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"Pedlosky has spent his time well in writing Waves in the Ocean and Atmosphere. ... The writing is informal and engaging. ... the clarity of the figures and text is uniformly high. ... my message to students and researchers working in the fields of atmospheric and oceanic dynamics is 'buy this book'. You will find it an invaluable reference work." (Andrew J. Willmott, Geophysical and Astrophysical Fluid Dynamics, Vol. 99 (4), August, 2005)

"This book is based on the author's lecture notes for a core course on wave theory The treatment is avowedly informal, making the presentation more easily accessible to beginning students the book is a welcome contribution to the literature by a distinguished investigator It can benefit students whether or not it is the required text for a course, and can be used as well as a reference or guide by others. The opportunity to share the insights of a teacher ... should not be missed." (John Merrill, Bulletin of the American Meteorological Society, April, 2005)

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