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Written by a renowned fluid dynamicist specializing in computational methods (particularly in turbulence), this introductory text addresses the subject of dynamic oceanography from a mathematical approach. The book begins with the basic equations of motion in integral form and covers such essential topics as geostropic flow, barotropic and baroclinic ocean circulations, vorticity, and the astronomical tides. Among the many appendices is one on the method of Matched Asymptotic Expansions as applied to the Gulf Stream the most modern and systematic way of looking at boundary layer problems. Problems are included at the end of each chapter.