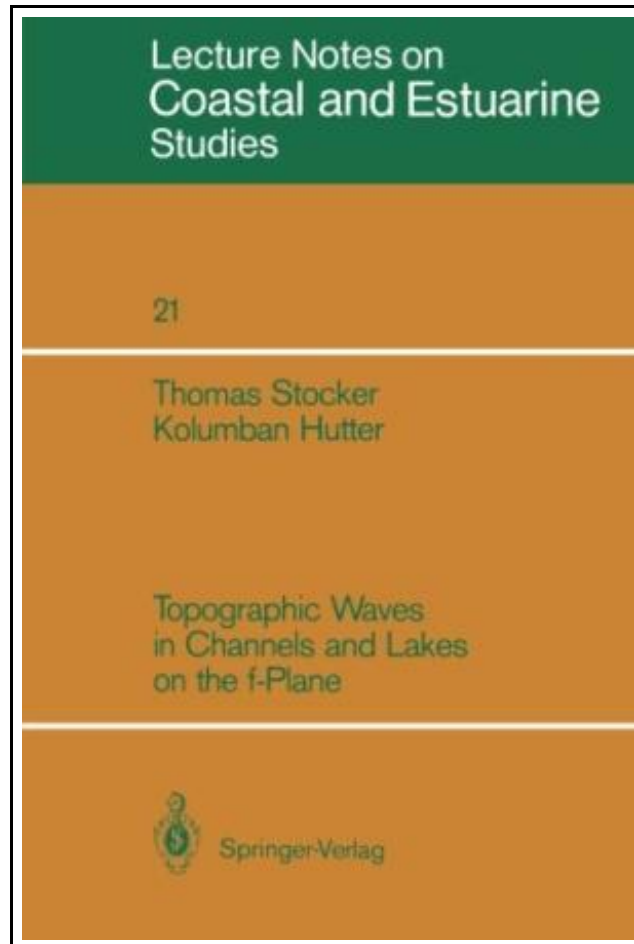


## Topographic Waves in Channels and Lakes on the f-Plane



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## TOPOGRAPHIC WAVES IN CHANNELS AND LAKES ON THE F-PLANE



Book Condition: New. Publisher/Verlag: Springer, Berlin | The last one or two decades have witnessed an increased interest in topographic Rossby waves, both from a theoretical computational as well as an observational point of view. However, even though long periodic processes were observed in lakes and ocean basins with considerable detail, it appears that interpretation in terms of physical models is not sufficiently conclusive. The reasons for this lack in understanding may be sought both, in the insufficient spatial resolution or the brevity of the time series of the available data and the inadequacy of the theoretical understanding of long periodic oscillating processes in lakes and ocean bays. Advancement will emerge from intensified studies of both aspects, but it is equally our belief that the understanding of long periodic oscillations in lakes is presently likely to profit most from a theoretical-computational study of topographic Rossby waves in enclosed basins. With this tractate we aim to provide the reader with the basic concepts of wave motion in shallow waters at subinertial frequencies. Our questions throughout this monograph are essentially: How can the solutions to this topographic wave equation in a prescribed idealized domain be constructed; what are the physical properties of these solutions; are their features identifiable by observations; how reliable are such interpretations, etc. | 1. Introduction.- 1.1 Preamble.- 1.2 Waves in waters.- 1.3 Observations - Their interpretations.- a) Lake Michigan.- b) Lake of Lugano (North basin).- c) Lake of Zurich.- d) Lake Ontario.- e) Other lakes and ocean basins.- 1.4 Aim of this work.- 2. Governing equations.- 2.1 Equations of adiabatic fluid flow.- 2.2 Vorticity, potential vorticity, topographic Rossby waves.- 2.3 Baroclinic coupling - the two-layer model.- a) Prerequisites.- b) Two-layer equations.- c) Approximations.- d) Scale analysis.- e) Boundary conditions.- 2.4 Continuous stratification.-...



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