

together, constitute an excellent framework for a modern graduate course on nearshore hydrodynamics. The subject matter includes design of field measurement systems; shallow-water transformation of regular and random waves; run-up and surf beat; conservation equations for nearshore waves and currents, including comparison of theoretical predictions and NSTS field measurements of setup, radiation stresses, and bottom friction coefficient; and regular and random wave models of the longshore current tested with field data.

The greatest weakness in this book is in the account of sediment transport. One would have expected a chapter on the Bailard sediment transport model published in the early 1980s, which was developed during the NSTS and among NSTS researchers and has served as the theoretical starting point of much recent work on sediment transport and beach change modeling. The physical insights and measurements obtained by the NSTS would be useful for examining the model predictions that have been published elsewhere. Thomas White and Douglas Inman do describe the results of the meticulous NSTS tracer experiments on depth of sand mixing and gross longshore sand transport rate, for which, surprisingly, much of the modern technology of hydrodynamics measurement so skillfully employed in the NSTS does not appear to have been used.

This book would more appropriately have been entitled "The Nearshore Sediment Transport Study," since it focuses on the activities and results of that project. Readers interested in learning about the state of knowledge of nearshore wave, current, and sediment transport measurement technology, hydrodynamics, and engineering procedures to measure the long-term longshore sand transport rate will find it worth owning. Those interested in sediment transport theory and related applications are advised that the NSTS fell short of its goal of developing engineering models of sediment transport, and this book does not include important theoretical, field, and laboratory advances made elsewhere over the past decade.

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