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The transformation of waves due to variations in depth and their interactions with structures are derived. Wavemaker theories and the statistics of ocean waves are reviewed. The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects.

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Water Wave Mechanics for Engineers and Scientists Hardcover – January 1, 1984 by Robert A. Dalrymple Robert G. Dean (Author) 4.5 out of 5 stars 24 ratings. Book 1 of 17: Advanced Series on Ocean Engineering. See all formats and editions Hide other formats and editions. Price New from Used from Kindle ...

Water Wave Mechanics for Engineers and Scientists: Robert ...

This book is intended as an introduction to classical water wave theory for the college senior or first year graduate student. The material is self-contained; almost all mathematical and engineering concepts are presented or derived in the text, thus making the book accessible to practicing engineers as well. The book commences with a review of fluid mechanics and basic vector concepts.

Water Wave Mechanics For Engineers And Scientists ...

The wave length will be shown later to be related to the water depth h and wave period T , which is the time required for two successive crests or troughs to pass a particular point. As the wave, then, must move a distance L in time T , the speed of the wave, called the celerity, C , is defined as $C = L/T$.

Water wave mechanics for engineers and scientists | Robert ...

Abstract. This book is aimed at final year undergraduates or postgraduates. Problems are included and supporting experiments for laboratory courses are outlined. Chapter 1 introduces wave mechanics while Chapter 2 provides a review of hydrodynamics and vector analysis. Chapter 3 deals with small amplitude water wave theory formulation and solution, with aspects of relevance to coastal engineering (e.g. water particle kinematics, wave transformation) covered in Chapter 4.

Water wave mechanics for engineers and scientists ...

The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects. Extension of the linear theory results to several nonlinear wave properties is presented.

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The Regular Waves section of this chapter provides only an introduction to wave mechanics, and it focuses on simple water wave theories for coastal engineers. Methods are discussed for estimating wave surface profiles, water particle motion, wave energy, and wave

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transformations due to interaction with the bottom and with structures.

Chapter 1 EM 1110-2-1100 WATER WAVE MECHANICS Table of ...

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The transformation of waves due to variations in depth and their interactions with structures are derived. Wavemaker theories and the statistics of ocean waves are reviewed. The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects.

This book is intended as an introduction to classical water wave theory for the college senior or first year graduate student. The material is self-contained; almost all mathematical and engineering concepts are presented or derived in the text, thus making the book accessible to practicing engineers as well. The book commences with a review of fluid mechanics and basic vector concepts. The formulation and solution of the governing boundary value problem for small amplitude waves are developed and the kinematic and pressure fields for short and long waves are explored. The transformation of waves due to variations in depth and their interactions with structures are derived. Wavemaker theories and the statistics of ocean waves are reviewed. The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects. Extension of the linear theory results to several nonlinear wave properties is presented. Each chapter concludes with a set of homework problems exercising and sometimes extending the material presented in the chapter. An appendix provides a description of nine experiments which can be performed, with little additional equipment, in most wave tank facilities.

An introduction to classical water wave theory for college seniors or first-year graduate students. Almost all the necessary mathematical and engineering concepts are either presented or derived in the text, making it also useful as a reference for practicing engineers. Paper edition (0421-3), \$28. Acidic paper. Annotation copyrighted by Book News, Inc., Portland, OR

This is a textbook aimed at graduate students and offshore engineering practitioners that covers basic fluid mechanics and the deterministic and statistical descriptions of infinitesimal and finite amplitude water waves. It reviews the theory of wave loading on structures and closes with a chapter on the potential of ocean wave energy and devices for extracting it. Since the 1980s there has been tremendous progress in

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numerical and physical modelling of coastal and offshore structures in waves. This calls for a clear understanding of the phenomena of wave generation, propagation, deformation and its effects on marine structures. This book will help the reader to understand the many results and descriptions found in journals, reports and research papers. It is self-contained, and encompasses the fundamentals of the subject with sufficient description and illustrations.

Intended for coastal engineers and marine scientists who desire to develop a fundamental physical understanding of ocean waves and be able to apply this knowledge to ocean and coastal analysis and design. Provides an introduction to the physical processes of ocean wave mechanics, an understanding of the basic techniques for wave analysis, techniques for practical calculation and prediction of waves and applied wave forecasting.

This book discusses the numerical simulation of water waves, which combines mathematical theories and modern techniques of numerical simulation to solve the problems associated with waves in coastal, ocean, and environmental engineering. Bridging the gap between practical mathematics and engineering, the book describes wave mechanics, establishment of mathematical wave models, modern numerical simulation techniques, and applications of numerical models in engineering. It also explores environmental issues related to water waves in coastal regions, such as pollutant and sediment transport, and introduces numerical wave flumes and wave basins. The material is self-contained, with numerous illustrations and tables, and most of the mathematical and engineering concepts are presented or derived in the text. The book is intended for researchers, graduate students and engineers in the fields of hydraulic, coastal, ocean and environmental engineering with a background in fluid mechanics and numerical simulation methods.

This book is based on the author's experiences in engineering practice and in the classroom. The introductory topics in wave mechanics and the presentation of such have their foundations in the courses taught at the U.S. Naval Academy. The advanced topics have their origins in the postgraduate courses taught at the Johns Hopkins University.

Wave Mechanics and Wave Loads on Marine Structures provides a new perspective on the calculation of wave forces on ocean structures, unifying the deterministic and probabilistic approaches to wave theory and combining the methods used in field and experimental measurement. Presenting his quasi-determinism (QD) theory and approach of using small-scale field experiments (SSFEs), author Paolo Boccotti simplifies the findings and techniques honed in his ground-breaking work to provide engineers and researchers with practical new methods of analysis. Including numerous worked examples and case studies, Wave Mechanics and Wave Loads on Marine Structures also discusses and provides useful FORTRAN programs, including a subroutine for calculating particle velocity and acceleration in wave groups, and programs for calculating wave loads on several kinds of structures. Solves the conceptual separation of deterministic and stochastic approaches to wave theory seen in other resources through the application of quasi-determinism (QD) theory Combines the distinct experimental activities of field measurements and wave tank experiment using small-scale field experiments (SSFEs) Simplifies and applies the ground-breaking work and techniques of this leading expert in wave theory and marine construction

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This book covers water waves, surf zone hydrodynamics, tides in oceans and estuaries, storm surges, estuarine mixing, basic sediment transport, coastal morphodynamics and coastal groundwater dynamics. It is an introductory treatment, suitable for a first course in coastal and estuarine processes for earth scientists or engineers. Yet, there are substantial amounts of new material that are included, such as the explicit, analytical treatment of transient, forced long waves. Inclusion of this material will in turn strongly enhance the introductory treatment of tsunami, storm surges and surf beat. The treatment of sine wave theory emphasizes expressions which are explicit in the water depth h (using k_0h instead of kh) so that they can easily be differentiated or integrated with respect to h . This is a major pedagogical advantage because of the enhanced transparency. The treatment of turbulent mixing includes finite mixing length effects which provide an explanation for differential diffusion of different sediment sizes in suspension. The effects of acceleration skewness and boundary layer streaming are also included in the basic sediment transport models. The inclusion of beach groundwater dynamics — including the mechanisms by which waves as well as tides drive groundwater motion — provides a link between the previously unconnected fields of coastal hydraulics and regional groundwater modeling. Serving as a good reference book, it is fully indexed and comprehensively cross referenced. Abundant references to more detailed texts are also provided.

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