Example 2.5-1

Consider the wave from Example 2.3–1 when it has propagated into a water depth of 10 m without refracting and assuming energy gains and losses can be ignored. Determine the wave height and the water particle velocity and pressure at a point 1 m below the still water level under the wave crest. (Assume fresh water.)

Solution:

From Example 2.3–1 we have $L_o = 156 \,\mathrm{m}$ and Eq. (2.14) gives

$$L = \frac{9.81(10)^2}{2\pi} \tanh \frac{2\pi(10)}{L}$$

which can be solved by trial to yield L=93.3 m. Then, $k=2\pi/93.3=0.0673$ m⁻¹ and from Eq. (2.38)

$$n = \frac{1}{2} \left(1 + \frac{2(0.0673)(10)}{\sinh(2(0.0673)(10))} \right) = 0.874$$

With $K_r = 1$, Eq. (2.42) yields

$$H = 2\sqrt{\frac{156}{2(0.874)(93.3)}} = 1.97 \,\mathrm{m}$$

At the crest of the wave $\cos(kx - \sigma t) = 1$, and z = -1, so Eq. (2.21) gives

$$u = \frac{\pi(1.97)}{10} \left[\frac{\cosh(0.0673)(9)}{\sinh(0.0673)(10)} \right] = 1.01 \text{ m/s}$$

which is the total particle velocity since w = 0 under the wave crest. Equation (2.32) gives

$$P = -1000(9.81)(-1) + \frac{1000(9.81)(1.97)}{2} \left[\frac{\cosh(0.0673)9}{\cosh(0.0673)10} \right]$$

= 19, 113 N/m²

Remember, Eqs. (2.40) to (2.42) neglect energy transfer to and from waves by surface and bottom effects. The nature of these effects is discussed briefly below. Bottom effects, of course, require that the water depth be sufficiently shallow for a strong interaction between the wave train and the bottom.

Basic Coastal Engineering Solution Manual

Rong-chung John Hsu, Jung Lyul Lee, Antonio Henrique Da Fontoura Klein, Mauricio Gonzalez, Raul Medina

Basic Coastal Engineering Solution Manual:

Basic Coastal Engineering Robert Sorensen, 2013-03-14 In the 20 years since publication of the first edition of this book there have been a number of significant changes in the practice of coastal engineering This new edition has been completely rewritten to reflect these changes as well as to make other improvements to the material presented in the original text Basic Coastal Engineering is an introductory text on wave mechanics and coastal processes along with the fundamentals of the practice of coa tal engi neering This book was written for a senior or first postgraduate course in coastal engineering It is also suitable for self study by anyone having a basic engineering or physical science background The level of coverage does not require a math or fluid mechanics background beyond that presented in a typical undergraduate civil or mechanical engineering curriculum The material presented in this text is based on the author's lecture notes from a one semester course at Virginia Pol ytechnic Institute Texas A M University and George Washington University and a senior elective course at Lehigh University The text contains examples to demonstrate the various analysis techniques that are presented and each chapter except the first and last has a collection of problems for the reader to solve that further demonstrate and expand upon the text material Chapter 1 briefly describes the coastal environment and introduces the rela tively new field of coastal engineering Review of the Corps of Engineers Approach to the Problem of Shoreline Erosion Control United States. Army. Corps of Engineers. Task Force on Shore Protection, 1985 Civil Works Annual Research & Development Summary, 1982 Introduction To Coastal Engineering And Management (Third Edition) J William Kamphuis, 2020-05-29 This book is based on the author's 49 years of experience as a practicing coastal engineer and 34 years as professor of coastal engineering and management at Queen's University The book is therefore thoroughly practical in nature but it also reflects newly relevant issues such as consequences of failure impacts of rising sea levels aging infrastructure real estate development and contemporary decision making design and education This textbook is useful for undergraduate students postgraduate students and practicing engineers It covers waves structures sediment movement coastal management and contemporary coastal design and decision making It presents both basic principles and engineering solutions It discusses the traditional methods of analysis and synthesis design but also contemporary design methodologies such as working with environmental impacts The second edition expanded greatly on the topics of failure and resilience that surfaced as a result of recent disasters from hurricane surges and tsunamis It updated the discussion of design and decision making for the 21st century with many new examples This third edition develops some of these topics further but its largest new changes is the chapter on climate change This chapter presents the basics of climate change and then goes on to stress the practical implications of the impacts of climate change focusing on what is of importance to coastal and fluvial specialists Coastal And Ocean Engineering Practice Young C Kim, 2012-06-08 Successful coastal and ocean engineering projects rely on practical experience with technical tools and knowledge available to the engineer Often problems arise from projects that

are too complex for theoretical description which require that engineers exercise sound judgment in addition to reliance on past practical experience This book focuses on the latest technology applied in design and construction effective engineering methodology unique projects and problems design and construction challenges and other lessons learned In addition unique practices in planning design construction maintenance and performance of coastal and ocean projects will be explored

Design of Beach Fills United States. Army. Corps of Engineers, 1995 This manual provides guidance for the design of beach fill projects intended to protect coastal development from coastal storm waves and erosion This manual applies to HQUSACE elements major subordinate commands districts laboratories and field operating activities having responsibility for design construction and operation of civil works projects within the nearshore coastal region This manual discusses the data needed identifies data sources and discusses parameters and methods applicable to beach fill design procedures The importance of borrow material characteristics and procedures for adjusting the fill quantity to account for differences between natural beach material and borrow material are presented Monitoring needs prior to during and following construction are also discussed **Monthly Catalog of United States Government Publications** ,1976 **Monthly** Catalog of United States Government Publications, Cumulative Index United States. Superintendent of Handbook Of Coastal And Ocean Engineering (Expanded Edition) (In 2 Volumes) Young C Documents, 1976 Kim, 2017-12-21 The handbook contains a comprehensive compilation of topics that are at the forefront of many of the technical advances in ocean waves coastal and ocean engineering More than 110 internationally recognized authorities in the field of coastal and ocean engineering have contributed articles in their areas of expertise to this handbook These international luminaries are from highly respected universities and renowned research and consulting organizations around the world Oceans and Aquatic Ecosystems - Volume II Eric Wolanski, 2009-10-20 Oceans and Aquatic Ecosystems theme is a component of Encyclopedia of Natural Resources Policy and Management in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The theme guides the reader through various pathways followed by surface water on earth It describes the dominant processes that govern how organisms interact with water and with each other and how they in turn can modify water properties. This knowledge is important for humanity Indeed only by understanding our actions impacts upon water and the animals and plants living in it can we learn to exploit water marine and fresh water habitats and the living organisms without destroying the resources on which our livelihood and very survival depend The Theme on Oceans and Aquatic Ecosystems discusses matters of great relevance to our world such as Freshwater Wetland Resources and Biology Problems Restoration and Conservation of Lakes and Rivers Coastal Regions The Oceans and Seas Oceanic Islands These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Forthcoming Books Rose Arny, 2000 Hydraulics in Civil and

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