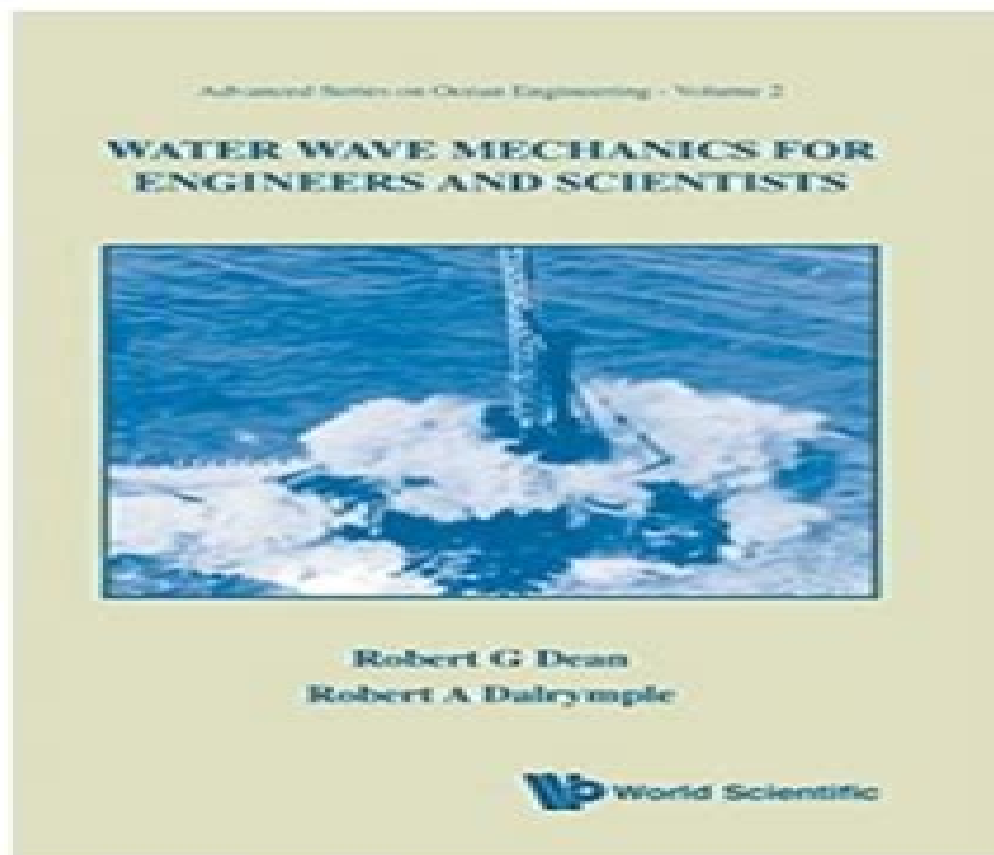


WATER WAVE MECHANICS FOR ENGINEERS AND SCIENTISTS (Advanced Ocean Engineering) (v. 2)

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Water Wave Mechanics for Engineers and Scientists Robert George Dean, Robert A. Dalrymple, 1984 **Water Wave Mechanics For Engineers And Scientists** Robert G Dean, Robert A Dalrymple, 1991-01-23 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

Automated Coastal Engineering System David A. Leenknecht, Andre Z. Szuwalski, Ann R. Sherlock, Andre Szuwalski, 1992

Ocean Wave Mechanics V. Sundar, 2017-02-13 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 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 **Mechanics of Coastal Sediment Transport** J?rgen Freds?e, Rolf Deigaard, 1992 This book treats the subject of sediment transport in the marine environment covering transport of non cohesive sediment by waves and current in and outside the surf zone It can be read independently but a background in hydraulics and basic wave mechanics is required It is intended for M Sc and Ph D students The primary aim of the book is to describe the physical processes of sediment transport and how to represent them in mathematical models It does not present a large number of different formulae for the sediment transport rates under various conditions The book can be divided in two main parts in the first the relevant hydrodynamic theory is described in the second sediment transport and morphological development are treated The hydrodynamic part contains a review of elementary theory for water waves chapters on the turbulent wave boundary layer and the turbulent interaction between waves and currents and finally surf

zone hydrodynamics and wave driven currents The part on sediment transport introduces the basic concepts critical bed shear stress bed load suspended load and sheet layer near bed concentration effect of sloping bed it treats suspended sediment in waves and current and in the surf zone and current and wave generated bed forms Finally the modelling of cross shore and long shore sediment transport is described together with the development of coastal profiles and coastlines

Hydraulics in Civil and Environmental Engineering, Fifth Edition Andrew Chadwick, John Morfett, Martin

Borthwick, 2013-02-19 Now in its fifth edition Hydraulics in Civil and Environmental Engineering combines thorough coverage of the basic principles of civil engineering hydraulics with wide ranging treatment of practical real world applications This classic text is carefully structured into two parts to address principles before moving on to more advanced topics The first part focuses on fundamentals including hydrostatics hydrodynamics pipe and open channel flow wave theory physical modeling hydrology and sediment transport The second part illustrates the engineering applications of these fundamental principles to pipeline system design hydraulic structures and river canal and coastal engineering including up to date environmental implications A chapter on computational hydraulics demonstrates the application of computational simulation techniques to modern design in a variety of contexts What's New in This Edition Substantive revisions of the chapters on hydraulic machines flood hydrology and computational modeling New material added to the chapters on hydrostatics principles of fluid flow behavior of real fluids open channel flow pressure surge in pipelines wave theory sediment transport river engineering and coastal engineering The latest recommendations on climate change predictions impacts and adaptation measures Updated references Hydraulics in Civil and Environmental Engineering Fifth Edition is an essential resource for students and practitioners of civil environmental and public health engineering and associated disciplines It is comprehensive fully illustrated and contains many worked examples Spreadsheets and useful links to other web pages are available on an accompanying website and a solutions manual is available to lecturers **Liquefaction**

Around Marine Structures (With Cd-rom) B Mutlu Sumer, 2014-03-27 This book whose primary aim is to describe liquefaction processes and their implications for marine structures such as pipelines sea outfalls quay walls and caisson breakwaters discusses the subject of soil liquefaction in the marine environment In addition the physics of liquefaction including examples illustrating the catastrophic consequences of soil liquefaction with regard to marine structures are described and the mathematical modelling of liquefaction is treated in detail Also carefully selected numerical examples support the discussion of assessing liquefaction potential and benchmark cases such as buried gas pipelines and their floatation caisson breakwaters cover stones and their interaction with liquefied soil along with counter measures are investigated COASTAL ENGINEERING, SECOND EDITION MANI, J. S., 2018-07-01 The present edition with new title

Coastal Engineering is the enlarged and updated volume of the book originally published under the title Coastal Hydrodynamics in 2012 The book provides an overview of world population and ocean resources natural threats and man

made hazards and their impact on coastal environment It discusses the fundamentals of wind waves tides and fluid flow and describes commonly adopted wave theories in coastal engineering The text explains the methods for estimating wave forces on coastal structures procedures for the analysis of wave data and sediment transport Apart from the estimation of beach profile evolution and shoreline change the book discusses key aspects related to the design of different coastal structures

NEW TO THE SECOND EDITION Includes two new chapters on Beach Profile and Shoreline Evolution and Design of Breakwaters and Coastal Protective Structures Colour photographs are appended at the end of the book

KEY FEATURES

- Worked out examples will benefit the reader to understand and solve variety of coastal engineering problems
- Exercises given at the end of each chapter would benefit the reader to get exposed to a variety of practical problems related to coastal engineering

TARGET AUDIENCE B Tech M Tech Ocean Engineering Marine Engineering

New Approaches to Nonlinear Waves Elena Tobisch, 2015-08-19 The book details a few of the novel methods developed in the last few years for studying various aspects of nonlinear wave systems The introductory chapter provides a general overview thematically linking the objects described in the book Two chapters are devoted to wave systems possessing resonances with linear frequencies Chapter 2 and with nonlinear frequencies Chapter 3 In the next two chapters modulation instability in the KdV type of equations is studied using rigorous mathematical methods Chapter 4 and its possible connection to freak waves is investigated Chapter 5 The book goes on to demonstrate how the choice of the Hamiltonian Chapter 6 or the Lagrangian Chapter 7 framework allows us to gain a deeper insight into the properties of a specific wave system The final chapter discusses problems encountered when attempting to verify the theoretical predictions using numerical or laboratory experiments All the chapters are illustrated by ample constructive examples demonstrating the applicability of these novel methods and approaches to a wide class of evolutionary dispersive PDEs e g equations from Benjamin Oro Boussinesq Hasegawa Mima KdV type Klein Gordon NLS type Serre Shamel Whitham and Zakharov This makes the book interesting for professionals in the fields of nonlinear physics applied mathematics and fluid mechanics as well as students who are studying these subjects The book can also be used as a basis for a one semester lecture course in applied mathematics or mathematical physics

Nonlinear Waves And Offshore Structures Cheung Hun Kim, 2008-05-02 The responses of offshore structures are significantly affected by steep nonlinear waves currents and wind leading to phenomena such as springing and ringing of TLPs slow drift yaw motion of FPSOs and large oscillations of Spar platforms due to vortex shedding Research has brought about significant progress in this field over the past few decades and introduced us to increasingly involved concepts and their diverse applicability Thus an in depth understanding of steep nonlinear waves and their effects on the responses of offshore structures is essential for safe and effective designs This book deals with analyses of nonlinear problems encountered in the design of offshore structures as well as those that are of immediate practical interest to ocean engineers and designers It presents conclusions drawn from recent research pertinent to nonlinear waves and their effects on the

responses of offshore structures Theories observations and analyses of laboratory and field experiments are expounded such that the nonlinear effects can be clearly visualized

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