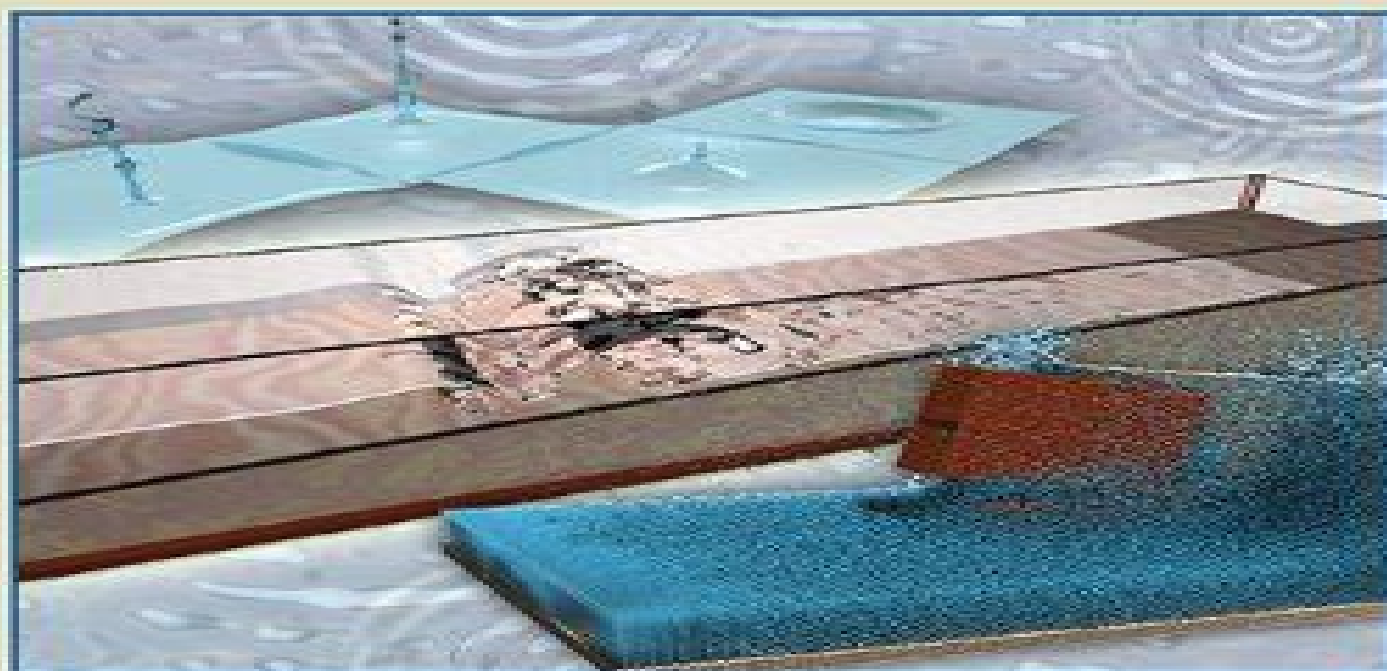


Advanced Series on Ocean Engineering — Volume 37

COMPUTATIONAL WAVE DYNAMICS



**Hitoshi Gotoh • Akio Okayasu
Yasunori Watanabe**

Computational Wave Dynamics 37 Advanced Series On Ocean Engineering

**Chiang C Mei, Michael Aharon
Stiassnie, Dick K-p Yue**



Computational Wave Dynamics 37 Advanced Series On Ocean Engineering:

Computational Wave Dynamics Hitoshi Gotoh,Akio Okayasu,Yasunori Watanabe,2013-06-04 This book provides a comprehensive description of the latest theory supported numerical technologies as well as scientific and engineering applications for water surface waves Its contents are crafted to cater to a step by step learning of computational wave dynamics and ocean wave modeling It provides a comprehensive description from underlying theories of free surface flows to practical computational applications for coastal and ocean engineering on the basis of computational fluid dynamics CFD The text may be used as a textbook for advanced undergraduate students and graduate students to understand the theoretical background of wave computations and the recent progress of computational techniques for free surface and interfacial flows such as Volume of Fluid VOF Constrained Interpolation Profile CIP Lagrangian Particle SPH MPS Distinct Element DEM and Euler Lagrange Hybrid Methods It is also suitable for researchers and engineers who wish to apply CFD techniques to ocean modeling and practical coastal problems involving sediment transport wave structure interaction and surf zone flows

Ocean Surface Waves: Their Physics And Prediction (Third Edition) Stanislaw Ryszard Massel,2017-09-28 This book is an extended and substantially updated edition of the previous book editions published in 1996 and 2013 under the same title The 3rd edition is a one volume modern and comprehensive overview of the current knowledge of regular and random ocean surface waves in deep waters and in coastal zones Since the previous editions many new theoretical advances have been made in the physical understanding and analytical and numerical treatment of various ocean wave problems The revisions and supplements demanded by these advances have been substantial therefore the scope of the book has been extended by adding a new chapter and substantially supplementing others All chapters of the book have been rewritten to include and describe in detail many new discoveries made since the completion of the previous editions In this 3rd edition a comprehensive and updated overview of the fundamentals of the regular wave mechanics as well as the spectral and statistical properties of random waves are given Except for the updated chapters dedicated to tsunami and extreme waves a new chapter dealing with other types of impulsive waves starting from rest are also included The air sea interaction processes as well as the last improvements in ocean wave modelling and presently available wave prediction models WAM WAVWATCH III UMWM NEMO are thoroughly discussed and their applications are demonstrated The review of the present ocean observation methods encompasses the modern sea truthing as well as applications of data from presently operating marine satellites In this revised edition chapters on the behavior of surface waves in the vegetated environments such as coral reef mangrove forest seaweed and seagrass areas are substantially extended and updated to include the last discoveries The explanations in the book are self contained and detailed enough to capture the interest of the potential readers and to prompt them to explore the research literature The list of rapidly growing number of the recent papers on the ocean waves has been extended substantially up to about 900 titles

Theory And Applications Of Ocean Surface

Waves (Third Edition) (In 2 Volumes) Chiang C Mei, Michael Aharon Stiassnie, Dick K-p Yue, 2018-03-15 This book set is a revised version of the 2005 edition of Theory and Applications of Ocean Surface Waves It presents theoretical topics on ocean wave dynamics including basic principles and applications in coastal and offshore engineering as well as coastal oceanography Advanced analytical and numerical techniques are demonstrated In this revised version five chapters on recent developments in linear and nonlinear aspects have been added The first is on detailed analyses in Wave Structure Interactions The second is a new section on Waves through a Marine Forest a topic motivated by its possible relevance to tsunami reduction The third is on Long Waves in Shallow Water and the fourth is an update on Broad Banded Nonlinear Surface Waves in the Open Sea to include new findings in this topic The fifth is an expanded chapter on Numerical Simulation of Nonlinear Wave Dynamics to include predictions of nonlinear spectral evolution and rogue wave occurrence and dynamics using large scale phase resolved simulations This revised version also includes recent developments in precorrected FFT accelerated $O(N \log N)$ low and high order boundary element methods for the computation of fully nonlinear wave wave and wave body interactions Theory and Applications of Ocean Surface Waves 2016 will be invaluable for graduate students and researchers in coastal and ocean engineering geophysical fluid dynamicists interested in water waves and theoretical scientists and applied mathematicians wishing to develop new techniques for challenging problems or to apply techniques existing elsewhere

Dynamics Of Coastal Systems (Second Edition) Job Dronkers, 2016-08-19 The book provides a comprehensive and up to date overview of the physical processes which according to the present state of knowledge determine the evolution of coastal systems and their response to human interventions This response depends to a large degree on the self organising properties of coastal dynamics which form a leading theme throughout the book The basic theoretical ideas are explained in text and figures and also in formulas for the more mathematically inclined reader Theories are illustrated with examples from estuaries coastal lagoons beaches and tidal flat systems from all over the world The rules and simple models can be used directly without relying on complex computations much attention is given to the strengths and weaknesses of the underlying theories and their limits of applicability The book is fully self contained some knowledge of basic physics and mathematics is recommended The book is an upgrade of the first edition Most parts are rewritten and chapters are added to incorporate research results new insight and experience of the past ten years This book is intended for everyone interested in coastal systems for professional or educational reasons

Coastal Engineering: Theory And Practice Vallam Sundar, Sannasi Annamalaisamy Sannasiraj, 2019-03-20 This book can potentially serve as a comprehensive textbook for students pursuing this subject either as degree or an elective course It covers all the fundamental physics behind the different phenomena taking place in the near shore regions and the coast as well as the various methods to estimate its impact Basic knowledge of water wave mechanics is crucial in understanding the coastal processes taking place in the near shore The assessment of incident forces due to wind wave tide current etc is important to evaluate the resultant

impact they cause on the shoreline and structures This book emphasizes the importance of sediment dynamics by analyzing the sediment characteristics the physics of its motion and movement factors responsible for the fate of sediments etc It also highlights the erosion problem which is most prevalent across the sandy coasts additionally erosion combating methods and techniques are also described with real time field problems and their solutions A wide range of coastal structures and their design principles are included in this book in order to give the reader a holistic understanding to the readers This book also includes the design challenges and introduces the reliable modeling tools and techniques which is very useful for beginners working in this discipline Satellite Sar Detection Of Sub-mesoscale Ocean Dynamic Processes Quanan Zheng,2017-03-17

Synthetic aperture radar SAR as a form of radar to create images of objects uses the motion of the radar antenna over a targeted region to provide finer spatial resolution than is possible with conventional beam scanning radars by mounting the antenna on a moving platform such as an aircraft or spacecraft As antenna aperture the size of the antenna is defined by the distance the SAR device travels over a target in the time taken for the radar pulses to return to the antenna the larger the aperture is the higher the image resolution therefore this enables SAR to create high resolution images with comparatively small physical antennas This special book aims to provide the updated theories and methods for the use of synthetic aperture radar SAR onboard satellites to detect ocean processes i e SAR ocean remote sensing It is a hi tech application field having been developed since late 1970s and become a powerful tool for obtaining dynamic signatures from the remote and broad ocean

Design Of Coastal Hazard Mitigation Alternatives For Rising Seas David Basco,2020-07-02 This timely book is about how to design alternatives to reduce coastal flood and wave damage erosion and loss of ecosystems facing an unknown future of sea level rise The latest theories are interlaced with applied examples from the authors 48 years of experience in teaching research and as a practicing professional engineer in coastal engineering The design process takes into consideration all the design constraints scientific engineering economic environmental social political institutional aesthetic and media to meet today s client needs expectations and budgets for an uncertain future The book is organized as a textbook for graduate students And it is a self contained reference for government and consulting engineers responsible for finding solutions to coastal hazards facing the world s coastal populations New solutions are included in the book that help people of all socio economic levels living at the coast Both risk reduction metrics quantified in monetary terms and increased resilience metrics quantified as vulnerability reduction must now be taken into consideration to make equitable design decisions on hazard mitigation alternatives In the Anthropocene Era under deep uncertainty in global mean sea level predictions for the future today s designs must mitigate today s storm damages and be adaptable for the unpredictable water levels and storms of the future This book includes a design philosophy for water levels to year 2050 and for the long term from 2050 to 2100 Multiple spreadsheets are provided and organized to aid the design process This is an exciting time to be thinkers as Civil Coastal engineers Related Link s *Design And Construction Of Berm Breakwaters* Jentsje Van Der

Meer, Sigurdur Sigurdarson, 2016-09-09 Modern design of berm breakwaters began about thirty years ago. However to date there has been a lack of a well established formal design methodology on berm breakwaters. The authors Dr Jentsje van der Meer and Sigurdur Sigurdarson combine over 40 years of collective experience working with breakwaters to put forward a design framework in *Design and Construction of Berm Breakwaters* covering the science and design practices of berm breakwater structures. The original design consisted of mass armoured berms that reshaped into statically stable S shaped slopes. The design was adopted in Iceland and eventually led to a development with more stable structures by using available rock sizes large rock and more rock gradings than just small rock core and large rock berm. This more stable and only partly reshaping structure is called the Icelandic type berm breakwater. Written for researchers and practitioners the volume consists of chapters on geometrical designs of the berm breakwater cross section including berm reshaping and wave overtopping quarry and project management as well as blasting and sorting techniques designs for various wave conditions and available rock classes and case studies of already constructed berm breakwaters.

An Introduction To Hydraulics Of Fine Sediment Transport Ashish J Mehta, 2013-09-30 This book presents observations on the phenomena of fine sediment transport and their explanations under process related divisions such as flocculation erosion and deposition. The text is a compilation of the author's lecture notes from nearly four decades of teaching and guiding graduate students in civil and coastal engineering. Illustrations of fine sediment transport processes and their complexities given in the book are taken from field and laboratory based observations by the author and his students as well as numerous investigators. The wide ranging composition of particles of inorganic and organic matter their universal presence and their complex interactions with hydraulic forces make this branch of science a difficult one to deal with in a single treatise. It is therefore essential to study fine sediment transport as an independent subject rather than cover it in no more than a single chapter as many texts on coarse sediment transport have done. Even though the entire coverage is introductory the twelve chapters collectively include more material than what can be reasonably dealt with in a one semester three credit course. The book includes an extensive description of the components of fine grained especially cohesive sediment transport. It covers the development of the subject in scientific and engineering applications mainly from the 1950s to its present state. Solved examples and chapter end exercises are also included. This text is aimed at senior civil engineering undergraduates and graduate students who in the normal course of their study seldom come across the subject of fine sediment transport in their curricula. Interested students should have a basic understanding of the mechanics of fluid flow and open channel hydraulics.

Tsunami: To Survive From Tsunami (Second Edition) Susumu Murata, Fumihiko Imamura, Kazumasa Katoh, Yoshiaki Kawata, Shigeo

Takahashi, Tomotsuka Takayama, 2018-03-05 The book is organized into two parts: the first part covers i) the precious lessons obtained from recent actual tsunami disasters including the 2004 Indian Ocean Tsunami and 2011 Great East Japan Earthquake Disaster; ii) fundamental knowledge of tsunami for our survival; and iii) concludes the lessons learnt and listing

measures for tsunami disaster mitigation for saving human lives The second part presents tsunami from academic perspective in two chapters one describes tsunami occurrence mechanism and near shore behavior the other mentions numerical simulation and forecasting of tsunami

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