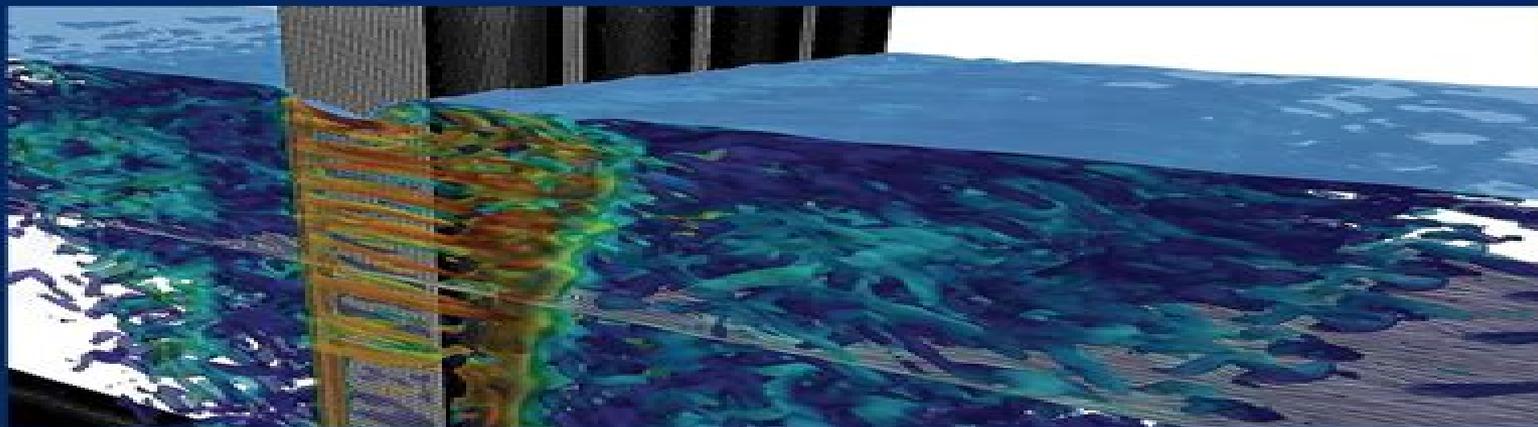


ADVANCES IN  
COASTAL AND OCEAN ENGINEERING  
VOLUME 19

# Numerical Modeling of Water Waves in Coastal and Ocean Engineering

Pablo Higuera • Jinghua Wang  
Jie Hu • Zhengtong Yang



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# Waves In Ocean Engineering

**Stanislaw R. Massel**



## **Waves In Ocean Engineering:**

Waves in Ocean Engineering M.J. Tucker, E.G. Pitt, 2001 Waves in Ocean Engineering covers the whole field of wave studies of interest to applied oceanographers and ocean engineers It has considerable relevance to coastal engineering The book is split into 12 sections the first of which is devoted to the practical applications of wave studies and to the history of wave research The rest of the book covers the measurement of waves including remote sensing the analysis and interpretation of wave data estimating the properties of the extreme Design Wave as well as of the generality of waves for fatigue calculations waves in finite depth wave generation by wind and wave forecasting models non linear effects and errors and uncertainties in wave data

**Wind Generated Ocean Waves** I.R. Young, 1999-03-23 The goals of wind wave research are relatively well defined to be able to predict the wind wave field and its effect on the environment That environment could be natural beaches the atmosphere etc or imposed by human endeavour ports harbours coastal settlements etc Although the goals are similar the specific requirements of these various fields differ considerably This book attempts to summarise the current state of this knowledge and to place this understanding into a common frame work It attempts to take a balanced approach between the pragmatic engineering view of requiring a short term result and the scientific quest for detailed understanding Thus it attempts to provide a rigorous description of the physical processes involved as well as practical predictive tools

**Ocean Surface Waves: Their Physics And Prediction (2nd Edition)** Stanislaw Ryszard Massel, 2013-01-30 New Edition Ocean Surface Waves Their Physics and Prediction 3rd Edition The book is an extended and updated edition of the book published in 1996 under the same title World Scientific ISBN 9810216866 It contains a very comprehensive and extensive study on surface ocean waves induced by wind earthquakes and possible landslides and asteroids impacts The basic mathematical principles physical description of the observed phenomena practical forecasting techniques of the various wave parameters and extended application in ocean and coastal engineering are discussed from the stochastic point of view All chapters were completely rewritten and supplemented with many new discoveries which were published since the first edition in 1996 In particular new chapters are added on very interesting and contemporary topics such as wave breaking mechanisms in deep and shallow water freak waves tsunami water circulation in porous sea bottom induced by surface waves and waves propagation through mangrove forests In terms of numerical modeling the state of the art of the modern methodology of wave prediction models WAM and SWAN as well as of the high sophisticated satellite methods of waves measurement and modern methods of signal processing including wavelets approach and Hilbert Transform approach are presented The book is supplemented with an extended list of relevant and extended contemporary bibliography subject index and author index

**Ocean Surface Waves: Their Physics And Prediction** Stanislaw Ryszard Massel, 1996-02-12 New Edition Ocean Surface Waves Their Physics and Prediction 3rd Edition This book is intended as a handbook for professionals and researchers in the areas of Physical Oceanography Ocean and Coastal Engineering and as a

text for graduate students in these fields It presents a comprehensive study on surface ocean waves induced by wind including basic mathematical principles physical description of the observed phenomena practical forecasting techniques of various wave parameters and applications in ocean and coastal engineering all from the probabilistic and spectral points of view The book commences with a description of mechanisms of surface wave generation by wind and its modern modeling techniques The stochastic and probabilistic terminology is introduced and the basic statistical and spectral properties of ocean waves are developed and discussed in detail The bulk of material deals with the prediction techniques for waves in deep and coastal waters for simple and complex ocean basins and complex bathymetry The various prediction methods currently used in oceanography and ocean engineering are described and the examples of practical calculations illustrate the basic text An appendix provides a description of the modern methods of wave measurement including the remote sensing techniques Also the wave simulation methods and random data analysis techniques are discussed In the book a lot of discoveries of the Russian and East European scientists largely unknown in the Western literature due to the language barrier are referred to

*Advances in Coastal and Ocean Engineering* Philip L. F. Liu, 1997 This review volume the third in the series presents the latest topics for discussion which provides invaluable information to coastal and ocean engineers around the world In the first paper of this volume entitled Internal Solitary Waves Grimshaw reviews the basic theory of weakly nonlinear waves in an incompressible density stratified fluid The internal solitary waves solutions and effects such as friction refraction and finite amplitude on internal solitary waves are also discussed In the second paper entitled The  $3/2$  Power Law for Ocean Wind Waves and Its Applications Toba gives a thorough review on the field evidence and physical background of the  $3/2$  power law and the associated wind wave energy spectra Several wind wave prediction models are also discussed Goda in his paper entitled Directional Wave Spectrum and Its Engineering Applications gives a brief historical overview of the development of directional wave spectrum He presents several standard formulas for directional spreading function for engineering applications and discusses the effects of directional spreading on nearshore currents and wave forces on coastal structures In a companion paper entitled Analysis of the Directional Wave Spectrum from Field Data Hashimoto describes the maximum entropy principle method Bayesian directional spectrum estimation method and the extended maximum entropy method for estimating directional wave spectrum Hashimoto also introduces a new developed Doppler type directional wave meter for field measurements Finally in Reliability Based Design of Coastal Structures Barcharth introduces a design procedure that makes it possible to optimize a design and or to design to a specific failure probability level

*Oceanographical Engineering* Robert L. Wiegel, 2013-09-03 As is the case with many modern fields of study oceanographical engineering cuts across the boundaries of several disciplines Like other scientific endeavors it aims to understand the nature of the ocean and to make use of this understanding for the benefit of humanity through better ports safer and more economical operations at sea and greater use of the oceans natural resources food raw materials and

recreation This graduate level text requires a knowledge of fluid mechanics a background in the motions of sediments in fluids is advisable as is a concurrent course in structural dynamics Topics include the theory of periodic waves tsunamis storm surges and harbor oscillations the effect of structures on waves waves in shoaling water tides and sea level changes currents shores and shore processes some characteristics of the oceans waters moorings and other related subjects Certain portions of the book pertaining to the distribution of temperatures and salinities in the ocean are largely descriptive other portions such as the sections on waves are mathematical Numerous drawings and photographs supplement the text

**Theory and Applications of Ocean Surface Waves: Nonlinear aspects** Chiang C. Mei, Michael Stiassnie, Dick K.-P. Yue, 2005 This book is an expanded version of *The Applied Dynamics 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 applied such as singular perturbations In this expanded edition two chapters on recent developments have been added one is on multiple scattering by periodic or random bathymetry and the other is on Zakharov's theory of broad spectrum wave fields New sections include topics on infragravity waves upstream solitons Venice storm gates etc In addition there are many new exercises **Theory and Applications of Ocean Surface Waves** 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

**Nonlinear Aspects** Chiang C. Mei, Michael Stiassnie, Dick K.-P. Yue, 2005 *Ocean Surface Waves* Stanislaw R. Massel, 2013 The book contains a comprehensive study on surface ocean waves induced by wind earthquakes and possibly landslides and asteroids impacts Basic mathematical principles physical description of the observed phenomena practical forecasting techniques of the various wave parameters and extended application in ocean and coastal engineering are discussed from the stochastic point of view New topics include wave breaking mechanisms in deep and shallow water and freak waves *Waves And Wave Forces On Coastal And Ocean Structures* Robert T Hudspeth, 2006-04-26 This book focuses on 1 the physics of the fundamental dynamics of fluids and of semi immersed Lagrangian solid bodies that are responding to wave induced loads 2 the scaling of dimensional equations and boundary value problems in order to determine a small dimensionless parameter that may be applied to linearize the equations and the boundary value problems so as to obtain a linear system 3 the replacement of differential and integral calculus with algebraic equations that require only algebraic substitutions instead of differentiations and integrations and 4 the importance of comparing numerical and analytical computations with data from laboratories and or nature

**Theory And Applications Of Ocean Surface Waves (In 2 Parts)** Chiang C Mei, Michael Aharon Stiassnie, Dick K-p Yue, 2005-07-26 This book is an expanded version of *The Applied Dynamics 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 applied such as singular perturbations In this expanded version three chapters on recent developments have been added The first is on multiple scattering by periodic or random bathymetry The second is on Zakharov s theory of nonlinear wave fields with broad spectra The third is an extensive discussion of powerful numerical techniques for highly nonlinear waves Other new topics include infragravity waves upstream solitons Venice storm gates etc In addition there are many new exercises Theory and Applications of Ocean Surface Waves 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

**Coastal Engineering - Waves, Beaches, Wave-Structure Interactions** T. Sawaragi, 1995-04-11 The science and technology of coastal and ocean engineering are closely related to harbour and fishery engineering because they share a common basic knowledge However whereas various publications of coastal engineering harbour engineering and ocean engineering have described just the knowledge in their own respective fields an interrelated and systematic presentation linking them together has yet to be attempted This book is the first attempt to systematically combine the fields of coastal ocean harbour and fishery engineering from an engineering viewpoint backed by hydrodynamics Understanding the interaction of waves with structures and sediment and predicting the associated responses of interest underlie nearly every problem in coastal and ocean engineering This is precisely the goal of this book Although primarily intended for use as a special textbook for graduate students and senior practising engineers it is hoped that this book will also serve as a useful reference and assist in the further development of this field With these objectives in mind each chapter deals with important problems to be solved in the near future The references included in each chapter should aid students and practising engineers in further broadening their knowledge This book is the English translation of the original Japanese version published in May 1991 commemorating the author s retirement from Osaka University Elsevier will be named copyright holder of the English translated publication of the Work This grant by Gihodo Publishers Ltd GP only pertains to the English language version of the Work and no other rights except to publish the Work in the English language are granted to Elsevier Science ES by GP which is acknowledged by ES to be the original copyright holder in the Work

*Handbook of Coastal and Ocean Engineering* Young C. Kim, 2010 This 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 70 internationally recognized authorities in the field of coastal and ocean engineering have contributed articles on their areas of expertise to this handbook These international luminaries are from highly respected universities and renowned research and consulting organizations from all over the world This handbook provides a comprehensive overview of shallow water waves water level fluctuations coastal and offshore structures port and harbors coastal sediment processes environmental problems coastal hazards

physical modeling and other issues in coastal and ocean engineering It is an essential reference for professionals and researchers in the areas of coastal engineering ocean engineering oceanography and meteorology as well as an invaluable text for graduate students in these fields Sample Chapter s Chapter 1 Wave Setup 2 255 KB Chapter 2 Wavemaker Theories 607 KB Contents Shallow Water Waves Wave Setup Robert G Dean and Todd L Walton Wavemaker Theories Robert T Hudspeth and Ronald B Guenther Analyses by the Melnikov Method of Damped Parametrically Excited Cross Waves Ronald B Guenther and Robert T Hudspeth Random Wave Breaking and Nonlinearity Evolution Across the Surf Zone Yoshimi Goda Aeration and Bubbles in the Surf Zone Nobuhito Mori Shohachi Kakuno and Daniel T Cox Freak Wave Nobuhito Mori Short Term Wave Statistics Akira Kimura Water Level Fluctuations Generation and Prediction of Seiches in Rotterdam Harbor Basins Martijn P C de Jong and Jurjen A Battjes Seiches and Harbor Oscillations Alexander B Rabinovich Finite Difference Model for Practical Simulation of Distant Tsunamis Sung Bum Yoon Coastal Structures Tsunami Induced Forces on Structures Ioan Nistor Dan Palermo Younes Nouri Tad S Murty and Murat Saatcioglu Nonconventional Wave Damping Structures Hocine Oumeraci Wave Interaction with Breakwaters Including Perforated Walls Kyung Duck Suh Prediction of Overtopping Jentsje van der Meer Tim Pullen William Allsop Tom Bruce Holger Schtrumpf and Andreas Kortenhaus Wave Run Up and Wave Overtopping at Armored Rubble Slopes and Mounds Holger Schtrumpf Jentsje van der Meer Andreas Kortenhaus Tom Bruce and Leopoldo Franco Wave Overtopping at Vertical and Steep Structures Tom Bruce Jentsje van der Meer Tim Pullen and W Allsop Surf Parameters for the Design of Coastal Structures Dong Hoon Yoo Development of Caisson Breakwater Design Based on Failure Experiences Shigeo Takahashi Design of Alternative Revetments Krystian W Pilarczyk Remarks on Coastal Stabilization and Alternative Solutions Krystian Pilarczyk Geotextile Sand Containers for Shore Protection Hocine Oumeraci and Juan Recio Low Crested Breakwaters Alberto Lamberti and Barbara Zanuttigh Hydrodynamic Behavior of Net Cages in the Open Sea Yu Cheng Li Offshore Structures State of Offshore Structure Development and Design Challenges Subrata Chakrabarti Ports and Harbors Computer Modeling for Harbor Planning and Design Jiin Jen Lee and Xiuying Xing Prediction of Squat for Underkeel Clearance Michael J Briggs Marc Vantorre Klemens Uliczka and Pierre Debaillon Coastal Sediment Processes Wave Induced Resuspension of Fine Sediment Mamta Jain and Ashish J Mehta Suspended Sand and Bedload Transport on Beaches Nobuhisa Kobayashi Andres Payo and Bradley D Johnson Headland Bay Beaches for Recreation and Shore Protection John Rong Chung Hsu Melissa Meng Jiuan Yu Fang Chun Lee and Richard Silvester Beach Nourishment Robert G Dean and Julie D Rosati Engineering of Tidal Inlets and Morphologic Consequences Nicholas C Kraus Environmental Problems Water and Nutrients Flow in the Enclosed Bays Yukio Koibuchi Sustainable Coastal Development Socioeconomic and Environmental Risk in Coastal and Ocean Engineering Miguel A Losada Rodr guez Asuncion Baquerizo Miquel Ortega Sinchez Juan M Santiago and Elena Sinchez Badorrey Utilization of the Coastal Area Hwung Hweng Hwung Coastal Hazards Ocean Wave Climates Trends and Variations Due to Earth s Changing Climate

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**The Applied Dynamics Of Ocean Surface Waves** Chiang C Mei,1989-07-01 The aim of this book is to present selected theoretical topics on ocean wave dynamics including basic principles and applications in coastal and offshore engineering all from the deterministic point of view The bulk of the material deals with the linearized theory

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

*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.

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.

*Wave Mechanics for Ocean Engineering* Paolo Boccotti, 2000-07-28. In a unitary way this monograph deals with a wide range of subjects related to the mechanics of sea waves. The book highlights recent theoretical results on the dynamics of random wind generated waves, on long term wave statistics and on beach planform evolution. A fresh approach is given to more traditional concepts. For example, new evidence from a recent series of small scale field experiments is used to introduce some crucial topics like wave forces. Also, the book gives some worked examples for the design of offshore or coastal structures. An exciting subject dealt with in the book is the quasi deterministic mechanics of three dimensional wave groups in sea storms and the loads exerted by these wave groups on offshore structures. The text is intended for researchers and graduate students in ocean engineering but may also be understood by undergraduates. The more complex concepts are explained with examples or more extensive case studies.

**Ocean Wave Mechanics**

V. Sundar, 2015-12-14. 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     **Advances in Coastal and Ocean Engineering** Philip L. F. Liu, 2001 Nonlinear modulation of water waves  
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