

NUMERICAL MODELING OF WATER WAVES

RENGZHI LIN



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Qingwei Ma



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Numerical Modeling Of Water Waves In Coastal And Ocean Engineering Pablo Higuera, Jinghua Wang, Jie Hu, Zhengtong Yang, 2023-03-16 This unique compendium introduces the field of numerical modelling of water waves The topics included the most widely used water wave modelling approaches presented in increasing order of complexity and categorized into phase averaged and phase resolving at the highest level A comprehensive state of the art review is provided for each chapter comprising the historical development of the method the most relevant models and their practical applications A full description on the method s underlying assumptions and limitations are also provided The final chapter features coupling among different models outlining the different types of implementations highlighting their pros and cons and providing numerous relevant examples for full context The useful reference text benefits professionals researchers academics graduate and undergraduate students in wave mechanics in general and coastal and ocean engineering in particular

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Numerical Simulation of Water Waves Jianhua Tao, 2020-03-30 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

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Numerical Modelling of Wave Energy Converters Matt Folley,2016-06-14 Numerical Modelling of Wave Energy Converters State of the Art Techniques for Single WEC and Converter Arrays presents all the information and techniques required for the numerical modelling of a wave energy converter together with a comparative review of the different available techniques The authors provide clear details on the subject and guidance on its use for WEC design covering topics such as boundary element methods frequency domain models spectral domain models time domain models non linear potential flow models CFD models semi analytical models phase resolving wave propagation models phase averaging wave propagation models parametric design and control optimization mean annual energy yield hydrodynamic loads assessment and environmental impact assessment Each chapter starts by defining the fundamental principles underlying the numerical modelling technique and finishes with a discussion of the technique s limitations and a summary of the main points in the chapter The contents of the chapters are not limited to a description of the mathematics but also include details and

discussion of the current available tools examples available in the literature and verification validation and computational requirements In this way the key points of each modelling technique can be identified without having to get deeply involved in the mathematical representation that is at the core of each chapter The book is separated into four parts The first two parts deal with modelling single wave energy converters the third part considers the modelling of arrays and the final part looks at the application of the different modelling techniques to the four most common uses of numerical models It is ideal for graduate engineers and scientists interested in numerical modelling of wave energy converters and decision makers who must review different modelling techniques and assess their suitability and output Consolidates in one volume information and techniques for the numerical modelling of wave energy converters and converter arrays which has up until now been spread around multiple academic journals and conference proceedings making it difficult to access Presents a comparative review of the different numerical modelling techniques applied to wave energy converters discussing their limitations current available tools examples and verification validation and computational requirements Includes practical examples and simulations available for download at the book's companion website Identifies key points of each modelling technique without getting deeply involved in the mathematical representation

Advanced Numerical Modelling of Wave Structure Interaction David M Kelly, Angelos Dimakopoulos, Pablo Higuera Caubilla, 2021-04-05 This book will serve as a reference guide and state of the art review for the wide spectrum of numerical models and computational techniques available to solve some of the most challenging problems in coastal engineering The topics covered in this book are explained fundamentally from a numerical perspective and also include practical examples applications Important classic themes such as wave generation propagation and breaking turbulence modelling and sediment transport are complemented by hot topics such as fluid and structure interaction or multi body interaction to provide an integral overview on numerical techniques for coastal engineering Through the vision of 10 high impact authors each an expert in one or more of the fields included in this work the chapters offer a broad perspective providing several different approaches which the readers can compare critically to select the most suitable for their needs Advanced Numerical Modelling of Wave Structure Interaction will be useful for a wide audience including PhD students research scientists numerical model developers and coastal engineering consultants alike

Numerical Modeling of Sea Waves Dmitry V. Chalikov, 2016-06-25 Presenting a novel approach to wave theory this book applies mathematical modeling to the investigation of sea waves It presents problems solutions and methods and explores issues such as statistical properties of sea waves generation of turbulence Benjamin Feir instability and the development of wave fields under the action of wind Special attention is paid to the processes of dynamic wind wave interaction the formation of freak waves as well as the role that sea waves play in the dynamic ocean atmosphere system It presents theoretical results which are followed by a description of the algorithms used in the development of wave forecasting models and provides illustrations to assist understanding of the various models presented This book provides an

invaluable resource to oceanographers specialists in fluid dynamics and advanced students interested in investigation of the widely known but poorly investigated phenomenon of sea waves *Numerical Modeling of Nonlinear Dispersive Water Waves Using the Method of Lines* Samir Hamdi,2001 **Geophysics and Ocean Waves Studies** Khalid S. Essa,Marcello Di Risio,Daniele Celli,Davide Pasquali,2021-03-17 The book Geophysics and Ocean Waves Studies presents the collected chapters in two sections named Geophysics and Ocean Waves Studies The first section Geophysics provides a thorough overview of using different geophysical methods including gravity self potential and EM in exploration Moreover it shows the significance of rock physics properties and enhanced oil recovery phases during oil reservoir production The second section Ocean Waves Studies is intended to provide the reader with a strong description of the latest developments in the physical and numerical description of wind generated and long waves including some new features discovered in the last few years The section is organized with the aim to introduce the reader from offshore to nearshore phenomena including a description of wave dissipation and large scale phenomena i e storm surges and landslide induced tsunamis This book shall be of great interest to students scientists geologists geophysicists and the investment community **MATHEMATICAL MODELS - Volume II** Jerzy A. Filar,Jacek B Krawczyk,2009-09-19 Mathematical Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mathematical Models discusses matters of great relevance to our world such as Basic Principles of Mathematical Modeling Mathematical Models in Water Sciences Mathematical Models in Energy Sciences Mathematical Models of Climate and Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three 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 *Numerical Modeling of Nonlinear Dispersive Water Waves Using the Method of Lines [microform]* Samir Hamdi,2001 **MATHEMATICAL MODELS OF LIFE SUPPORT SYSTEMS - Volume I** Valeri I. Agoshko,Jean-Pierre Puel,2009-10-10 Mathematical Models of Life Support Systems is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into several topics which represent the main scientific areas of the theme The first topic Introduction to Mathematical Modeling discusses the foundations of mathematical modeling and computational experiments which are formed to support new methodologies of scientific research The succeeding topics are Mathematical Models in Water Sciences Climate Environmental Pollution and Degradation Energy Sciences Food and Agricultural Sciences Population Immunology Medical Sciences and Control of Catastrophic Processes 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

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