

Dong-Sheng Jeng

# Porous Models for Wave-seabed Interactions

# Porous Models For Wave Seabed Interactions

**Wei Wu, Hai-Sui Yu**



## **Porous Models For Wave Seabed Interactions:**

**Porous Models for Wave-seabed Interactions** Dong-Sheng Jeng, 2012-10-18 Porous Models for Wave seabed Interactions discusses the Phenomenon of wave seabed interactions which is a vital issue for coastal and geotechnical engineers involved in the design of foundations for marine structures such as pipelines breakwaters platforms etc The most important sections of this book will be the fully detailed theoretical models of wave seabed interaction problem which are particularly useful for postgraduate students and junior researchers entering the discipline of marine geotechnics and offshore engineering This book also converts the research outcomes of theoretical studies to engineering applications that will provide front line engineers with practical and effective tools in the assessment of seabed instability in engineering design Prof Dong Sheng Jeng works at Shanghai Jiao Tong University China

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**Mechanics of Wave-Seabed-Structure Interactions** Dong-Sheng Jeng, 2018-04-26 Opening with recent advances in both the theoretical and physical models for wave seabed structure interactions this book provides an updated look at the mathematics behind the interactions between sea soil and man made structures The main models are broken down into key equations and their strengths and challenges are discussed These models are then placed in context with industry relevant examples in both two and three dimensions From seabed instability around offshore wind turbines to soil conditions in response to the laying of submarine pipelines this book takes a comprehensive look at a variety of wave seabed structure interactions With important implications for the future of offshore infrastructure this is an ideal resource for industry workers undergraduate students and researchers

**Porosity Theory with Applications to Transport in Porous Media** Dong-Sheng Jeng, Lin Cui, 2023-04-20 This book treats the subject of porous flow and its applications in three engineering and scientific problems The first major part of the book is devoted to solute transport in unsaturated porous media Dynamic hydraulic conductivity and degree of saturation associate with pore pressures are also included in the consolidation induced solute transport process The second part of this book focuses on tidal dynamics in coastal aquifers including shallow water expansion for sloping beaches two dimensional problem in estuarine zone and leaky confined aquifers The final part of the book summarizes the recent development of porous model in the field of liquefaction around

marine infrastructures including fundamental mechanisms of momentary and residual seabed liquefaction two dimensional and three dimensional porous models for fluid seabed interactions around breakwaters pipelines and piled foundations in marine environments The authors aim is to describe in detail the applications of porous models for several engineering problems This book will provide academic researchers and industry an overview of recent development in the field of porous models and the applications The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Non Commercial No Derivatives CC BY NC ND 4.0 license Funded by Qingdao University Technology China

*Frontiers in Offshore Geotechnics III* Vaughan Meyer, 2015-05-15 Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics ISFOG Oslo Norway 10-12 June 2015 organised by the Norwegian Geotechnical Institute NGI The papers address current and emerging geotechnical engineering challenges facing those working in off

**Handbook Of Coastal And Ocean Engineering (Expanded Edition) (In 2 Volumes)** Young C 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

**Springer Handbook of Ocean Engineering** Manhar R. Dhanak, Nikolaos I. Xiros, 2016-07-23 This handbook is the definitive reference for the interdisciplinary field that is ocean engineering It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies Coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean vehicles and automation It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture The Springer Handbook of Ocean Engineering is organized in five parts Part A Fundamentals Part B Autonomous Ocean Vehicles Subsystems and Control Part C Coastal Design Part D Offshore Technologies Part E Energy Conversion

*Numerical Analysis and Modelling in Geomechanics* John W. Bull, 2003-04-17 In geomechanics existing design methods are very much dependent upon sophisticated on site techniques to assess ground conditions This book describes numerical analysis computer simulation and modelling that can be used to answer some highly complex questions associated with geomechanics The contributors who are all international experts in th

*Asian And Pacific Coasts 2011 - Proceedings Of The 6th International Conference* Joseph Hun-wei Lee, Chiu-on Ng, 2011-11-24 This is a compilation of papers presented at the 6th International Conference on Asian and Pacific Coasts APAC2011 held on December 14-16 2011 in Hong Kong China It

contains more than 200 articles addressing a wide spectrum of issues ranging from conventional coastal engineering problems such as wave hydrodynamics and sediment transport to issues of contemporary interest such as tsunami coastal development climate change and seawater level rise shoreline protection marine energy nearshore ecology oil spill etc Authors present their experiences in tackling these problems by means of theoretical modeling numerical simulation laboratory and field observations with an aim to advance fundamental understanding of the controlling mechanisms as well as to develop solutions for practical designs This volume serves to promote technological progress and activities technical knowledge transfer and cooperation on an international scale

### **Coastal Geohazard and Offshore Geotechnics**

Dong-Sheng Jeng, Jisheng Zhang, V.S. Ozgur Kirca, 2021-05-18 With rapid developments being made in the exploration of marine resources coastal geohazard and offshore geotechnics have attracted a great deal of attention from coastal geotechnical engineers with significant progress being made in recent years Due to the complicated nature of marine environments there are numerous natural marine geohazard present throughout the world's marine areas e.g. the South China Sea In addition damage to offshore infrastructure e.g. monopiles bridge piers etc and their supporting installations pipelines power transmission cables etc has occurred in the last decades A better understanding of the fundamental mechanisms and soil behavior of the seabed in marine environments will help engineers in the design and planning processes of coastal geotechnical engineering projects The purpose of this book is to present the recent advances made in the field of coastal geohazards and offshore geotechnics The book will provide researchers with information regarding the recent developments in the field and possible future developments The book is composed of eighteen papers covering three main themes 1 the mechanisms of fluid seabed interactions and the instability associated with seabeds when they are under dynamic loading papers 1-5 2 evaluation of the stability of marine infrastructure including pipelines papers 6-8 piled foundation and bridge piers papers 9-12 submarine tunnels paper 13 and other supported foundations paper 14 and 3 coastal geohazards including submarine landslides and slope stability papers 15-16 and other geohazard issues papers 17-18 The editors hope that this book will function as a guide for researchers scientists and scholars as well as practitioners of coastal and offshore engineering

*Theory and Application of Hydraulic Modeling* Taro Arikawa, 2024-04-17 This edited volume from Japan's Research Subcommittee on Methodology for Dealing with Geomaterials in Hydraulic Model Experiments presents readers with a state of the art overview of experimental and computational methods used to address similarity scaling incompatibilities present in fluid sediment flows Readers will gain an understanding of complex phenomena in the boundary fields of hydraulics and geotechnical engineering Chapter contributors focus on the phenomena that are affected by the interactions between fluid wave and ground in a complex field which for many years have been challenging to process and model In addition to describing the implementation of model tests and the concept of the law of similarity this book contrasts these phenomena with the laws of similarity describes models and numerical analysis methods and explains important

considerations using experimental case studies Each chapter is written by leading researchers in Japan who are members of the Research Subcommittee on Methodology for Dealing with Geomaterials in Hydraulic Model Experiments The chapters are closely linked but are written so that each can be read individually Readers will be able to apply this knowledge to their work and to create models that more accurately simulate the interactions between wave and ground allowing them to better understand these phenomena and devise more appropriate strategies for defense and so on when necessary This collection provides information that can be used by young researchers and post graduate students in the boundary fields of hydraulics and geotechnical engineering who aim at becoming civil engineers and it will be of particular value to practicing engineers of all experience levels who must regularly analyze complex interactions between fluids and ground

Wave-Forced Sediment Erosion and Resuspension in the Yellow River Delta Yonggang Jia,Xiaolei Liu,Shaotong Zhang,Hongxian Shan,Jiewen Zheng,2019-04-01 This book focuses on the phenomenon of sediment erosion and resuspension in the Yellow River delta China which is a vital issue involved in understanding the sediment transport processes in estuarine and coastal environments and how these contribute to the nature and distribution of geohazards in the subaqueous Yellow River delta and Bohai Sea The most important sections of this book will be the detailed physical mechanisms and theoretical models of sediment erosion and resuspension problem fully considering the wave induced seabed dynamic response to waves which are particularly useful for postgraduate students and junior researchers entering the discipline of estuary and coastal sedimentation marine geotechnical engineering estuary and coastal engineering harbor and waterway engineering and coastal environmental protection This book can also serve as a textbook for advanced graduate students of Marine Engineering Geology and Estuarine Sediment Dynamics

*Computational Fluid and Solid Mechanics 2003* K.J Bathe,2003-06-02 Bringing together the world s leading researchers and practitioners of computational mechanics these new volumes meet and build on the eight key challenges for research and development in computational mechanics Researchers have recently identified eight critical research tasks facing the field of computational mechanics These tasks have come about because it appears possible to reach a new level of mathematical modelling and numerical solution that will lead to a much deeper understanding of nature and to great improvements in engineering design The eight tasks are The automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education teaching sound engineering and scientific judgement Readers of *Computational Fluid and Solid Mechanics 2003* will be able to apply the combined experience of many of the world s leading researchers to their own research needs Those in academic environments will gain a better insight into the needs and constraints of the industries they are involved with those in industry will gain a competitive advantage by gaining insight into the cutting edge research being carried out by

colleagues in academia Features Bridges the gap between academic researchers and practitioners in industry Outlines the eight main challenges facing Research and Design in Computational mechanics and offers new insights into the shifting the research agenda Provides a vision of how strong basic and exciting education at university can be harmonized with life long learning to obtain maximum value from the new powerful tools of analysis

**Coastal Structures 2007 (In 2 Volumes) - Proceedings Of The 5th Coastal Structures International Conference, Cst07** Alberto Lamberti, Leopoldo

Franco, Giuseppe Roberto Tomasicchio, 2009-06-09 Coastal Structures are undergoing renewal and innovation to better serve the needs of our society from environmental co existence and habitat enhancement to risk management The CSt07 conference is the fifth in a series that highlight significant progress in the innovation design and construction of coastal structures Proceedings of these CSt conferences have yielded milestone works frequently cited references in the field This two volume proceedings contains the final revised version of 178 papers that have been reviewed selected and discussed at the CSt07 conference The volume brings to readers a comprehensive range of contributions covering all aspects of research design construction and maintenance of coastal structures including new up to date interesting topics such as tsunamis and storm surge defences climate change piled coastal structures as well as ecological issues a new addition to the traditional program

**Proceedings of the 11th International Conference on Asian and Pacific Coasts** Yoshimitsu Tajima, Shin-ichi Aoki, Shinji Sato, 2024-06-18 This book presents peer reviewed articles from the 11th International Conference on Asian and Pacific Coasts APAC 2023 APAC aims to promote academic and technological progress and activities international technical transfer and cooperation and opportunities for engineers and researchers to maintain and improve scientific and technical competence in the field of coastal engineering and related fields among Asian and Pacific countries regions Besides coastal engineering related fields include but not limited to coastal environment marine ecology coastal oceanography and fishery science and engineering APAC is jointly supported by the Chinese Ocean Engineering Society COES the Coastal Engineering Committee of the Japan Society of Civil Engineers JSCE and the Korean Society of Coastal and Ocean Engineers KSCOEC Chapters OILPARI a real time oil transport simulator for marine disaster response Its functionary update and progresstoward the next generation Application of Building Cube Method to reproduce high resolution hydrodynamics of a dredged borrow pit in Osaka Bay Japan and Geographical Distribution and Recent Change in the Meteorological Event Causing the Annual Maximum Wave Height and Storm Surge around Japan are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

**Poromechanics** J.F. Thimus, et al, 2020-12-17 This text features 105 papers dealing with the fundamentals and the applications of poromechanics from the Biot conference of 1998 held in Louvain la Neuve Topics include wave propagation numerical modelling identification of poromechanical parameters and constitutive modelling

**Computational Mechanics** M. W. Yuan, 2004

**Issues in Land and Water Engineering: 2013 Edition** , 2013-05-01 Issues in Land and Water Engineering 2013

Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Coastal Engineering The editors have built Issues in Land and Water Engineering 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Coastal Engineering in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Land and Water Engineering 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**Engineering Evolutionary Intelligent Systems** Ajith Abraham, Crina Grosan, Witold Pedrycz, 2008-01-03 This edited volume deals with the theoretical and methodological aspects as well as various evolutionary algorithm applications to many real world problems originating from science technology business and commerce It comprises 15 chapters including an introductory chapter which covers the fundamental definitions and outlines some important research challenges Chapters were selected on the basis of fundamental ideas concepts rather than the thoroughness of techniques deployed [Proceedings of China-Europe Conference on Geotechnical Engineering](#) Wei Wu, Hai-Sui Yu, 2018-08-02 This book compiles the first part of contributions to the China Europe Conference on Geotechnical Engineering held 13-16 August 2016 in Vienna Austria About 400 papers from 35 countries cover virtually all areas of geotechnical engineering and make this conference a truly international event The contributions are grouped into thirteen special sessions and provide an overview of the geoengineering research and practice in China Europe and the world Constitutive model Micro macro relationship Numerical simulation Laboratory testing Geotechnical monitoring instrumentation and field test Foundation engineering Underground construction Environmental geotechnics New geomaterials and ground improvement Cold regions geotechnical engineering Geohazards risk assessment mitigation and prevention Unsaturated soils and energy geotechnics Geotechnics in transportation structural and hydraulic Engineering



## Unveiling the Magic of Words: A Report on "**Porous Models For Wave Seabed Interactions**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Porous Models For Wave Seabed Interactions**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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