Dong-Sheng Jeng

# Porous Models for Wave-seabed Interactions

# **Porous Models For Wave Seabed Interactions**

J.F. Thimus, et al

#### **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 Porous Models for Wave-seabed Interactions Dong-Sheng Jeng, 2012-10-17 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 Mechanics of Wave-Seabed-Structure Interactions Dong-Sheng Jeng, 2018-04-26 An in depth look University China at the mechanics of combined stresses imposed on the seabed from wave action and marine infrastructure 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 aguifers including shallow water expansion for sloping beaches two dimensional problem in estuarine zone and leaky confined aguifers 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 Oingdao University Technology China 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 environmnets there are numerous natural marine geohazard preset throughout the world's marine areas e q 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 reagrding 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 functoin as a guide for researchers scientists and scholars as well as practitioners of coastal and offshore engineering 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 Computational Mechanics M. W. Yuan, 2004 **Numerical Analysis and Modelling in Geomechanics** the world John W. Bull, 2003-09-02 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 the field also give insights into the future directions of these methods Numerical Analysis and Modelling in Geomechanics will appeal to professional engineers involved in designing and building both onshore and offshore structures

where geomechanical considerations may well be outside the usual codes of practice and therefore specialist advice is required Postgraduate researchers degree students carrying out project work in this area will also find the book an invaluable resource 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 Wave-Forced Sediment Erosion and Resuspension in the Yellow River Delta Technologies Part E Energy Conversion 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 **Poromechanics** I.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 propogation numerical modelling identification of poromechanical parameters and constitutive modelling 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 numeral 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 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 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 KSCOE 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 The Proceedings of the Eighth (1998) International Offshore and Polar Engineering Conference Jin S. com Proceedings of GeoShanghai 2018 International Conference: Tunnelling and Underground Chung, 1998 **Construction** Dongmei Zhang, Xin Huang, 2018-05-10 This book is the fifth volume of the proceedings of the 4th GeoShanghai International Conference that was held on May 27 30 2018 This volume entitled Tunneling and Underground Construction covers the recent advances and technologies in tunneling and underground structure engineering It presents the state of the art planning philosophy theories experiments methodologies and findings in the related areas The importance of underground space utilization to the development of human society is also addressed The challenges and future directions of underground engineering are highlighted. The topics include but are not limited to the tunneling and underground construction induced ground deformation mechanical behaviors of segmental lining systems tunneling in challenging situations maintenance tactic and emergency counter measures The book may benefit researchers and scientists from the academic fields of tunneling and underground structure engineering as well as practical engineers from the industry Each of the papers included in this book received at least two positive peer reviews The editors would like to express their sincerest Transport Processes in Porous appreciation to all of the anonymous reviewers all over the world for their diligent work Media Jacob Bear, M. Yavuz Corapcioglu, 2012-12-06 This volume contains the invited lectures presented during the NATO ASI conducted in Pullman Washington July 9 18 1989 This is the third in a series of NATO ASIs on transport phenomena in porous media The first two which took place at Newark Delaware in 1982 and 1985 are devoted to various topics related to the Fundamentals of Transport Processes in Porous Media The contents of the books resulting from previous NATO ASIs are given at the end of this book Transport of extensive quantities such as mass of a fluid phase mass of chemical species carried by a fluid phase energy and electric charge in porous media as encountered in a large variety of engineering disciplines is an emerging interdisciplinary field The groundwater flow the simultaneous flow of gas oil and water in petroleum reservoirs the movement and accumulation of pollutants in the saturated and unsaturated subsurface zones thermal energy storage in reservoirs land subsidence in response to charges in overburden loads or to pumping of fluids from underground formations

wave propagation in seismic investigations or as produced by earthquakes chemical reactors water flow through sand filters and the movement of fluids through kidneys may serve as examples of fields in which the theory of transport in porous media is employed Coastal Engineering 2006 - Proceedings Of The 30th International Conference (In 5 Volumes) Jane Mckee Smith, 2007-04-03 This Proceedings contains 445 papers presented at the 30th International Conference on Coastal Engineering which was held in San Diego California USA 3 8 September 2006 The Proceedings is divided into five parts Waves Swash Nearshore Currents and Long Waves Coastal Management Risk and Ecosystem Restoration Sediment Transport and Morphology and Coastal Structures The individual papers cover a broad range of topics including theory numerical and physical modeling field measurements case studies design and management These papers provide engineers scientists and planners state of the art information on coastal engineering and coastal processes **Engineering Geology** for a Habitable Earth: IAEG XIV Congress 2023 Proceedings, Chengdu, China Sijing Wang, Rungiu Huang, Rafig Azzam, Vassilis P. Marinos, 2024-09-24 This book collects the selected papers of the XIV Congress of the International Association for Engineering Geology and the Environment held in Chengdu Sichuan China from September 21st 27th 2023 with the theme of Engineering Geology for a Habitable Earth The meeting proceedings analyses the dynamic role of engineering geology in our changing world The congress is expected to enhance the inter disciplinary research development of international engineering geology and the environment and contribute to the advancement of major projects ecological progress and habitable earth with in depth discussion in the area of engineering geology and global climate change geological hazard assessment and prevention geotechnical properties of rock and soil mass engineering geology and the environmental issues concerning marine transportation urban and ecological environment protection engineering geology and resilience engineering construction intelligent engineering geology and new theories methods and techniques in engineering geology

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