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The Lightweight Treated Soil Method - Takashi Tsuchida 2004-08-15

This is an in-depth practical examination of the newly developed Lightweight Treated Soil Method, based on the extensive research and experience of two leading recognized experts. Indispensable to geotechnical and construction engineers or to researchers and professionals interested in coastal engineering techniques, geotechnical engineering or geomaterials, it comprises a full review of the lightweight treated soil method and its applications, along with numerous case-studies throughout Japan.

Dynamic Soil-Structure Interaction for Sustainable Infrastructures - Deepankar

Choudhury 2018-10-27

This volume focuses on the role of soil-structure-interaction and soil dynamics. It discusses case studies as well as physical and numerical models of geo-structures. It covers: Soil-Structure-Interaction under static and dynamic loads, dynamic behavior of soils, and soil liquefaction. It is hoped that this volume will contribute to further advance the state-of-the-art for the next generation infrastructure as a key to creating a sustainable community affecting our future well-being as well as the economic climate. The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 - The official international congress

of the Soil-Structure Interaction Group in Egypt (SSIGE).

Geotechnics for Catastrophic Flooding Events - Susumu Iai 2014-08-21

Geotechnics for Catastrophic Flooding Events presents the keynote lectures (book, 264 pages) and keynote lectures and general papers (CD-ROM, 608 pages) presented at the Fourth International ISSMGE Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (4th GEDMAR, Kyoto, Japan, 16-18 September 2014). The contributions dis

Trends in the Analysis and Design of Marine Structures - Carlos Guedes Soares 2019-04-15

Trends in the Analysis and Design of Marine Structures is a collection of the papers presented at MARSTRUCT 2019, the 7th International Conference on Marine Structures held in Dubrovnik, Croatia, 6-8 May 2019. The MARSTRUCT series of Conferences started in Glasgow, UK in 2007, the second event of the series having taken place in Lisbon, Portugal in March 2009, the third in Hamburg, Germany in March 2011, the fourth in Espoo, Finland in March 2013, the fifth in Southampton, UK in March 2015, and the sixth in Lisbon, Portugal in May 2017. This Conference series specialises in dealing with Ships and Offshore Structures, addressing topics in the fields of: - Methods and Tools for Loads and Load Effects - Methods and

Tools for Strength Assessment - Experimental Analysis of Structures - Materials and Fabrication of Structures - Methods and Tools for Structural Design and Optimisation - Structural Reliability, Safety and Environmental Protection. Trends in the Analysis and Design of Marine Structures is an essential document for academics, engineers and all professionals involved in the area of analysis and design of Ships and Offshore Structures. About the series: The 'Proceedings in Marine Technology and Ocean Engineering' series is devoted to the publication of proceedings of peer-reviewed international conferences dealing with various aspects of 'Marine Technology and Ocean Engineering'. The Series includes the proceedings of the following conferences: the International Maritime Association of the Mediterranean (IMAM) conferences, the Marine Structures (MARSTRUCT) conferences, the Renewable Energies Offshore (RENEW) conferences and the Maritime Technology (MARTECH) conferences. The 'Marine Technology and Ocean Engineering' series is also open to new conferences that cover topics on the sustainable exploration and exploitation of marine resources in various fields, such as maritime transport and ports, usage of the ocean including coastal areas, nautical activities, the exploration and exploitation of mineral resources, the protection of the marine environment and its resources, and risk analysis, safety and reliability. The aim of the series is to stimulate advanced education and training through the wide dissemination of the results of scientific research.

Geotechnical Hazards from Large Earthquakes and Heavy Rainfalls - Hemanta Hazarika 2016-09-01

This book is a collection of papers presented at the International Workshop on Geotechnical Natural Hazards held July 12-15, 2014, in Kitakyushu, Japan. The workshop was the sixth in the series of Japan-Taiwan Joint Workshops on Geotechnical Hazards from Large Earthquakes and Heavy Rainfalls, held under the auspices of the Asian Technical Committee No. 3 on Geotechnology for Natural Hazards of the International Society for Soil Mechanics and Geotechnical Engineering. It was co-organized by the Japanese Geotechnical Society and the

Taiwanese Geotechnical Society. The contents of this book focus on geotechnical and natural hazard-related issues in Asia such as earthquakes, tsunami, rainfall-induced debris flows, slope failures, and landslides. The book contains the latest information and mitigation technology on earthquake- and rainfall-induced geotechnical natural hazards. By dissemination of the latest state-of-the-art research in the area, the information contained in this book will help researchers, designers, consultants, government officials, and academicians involved in the mitigation of natural hazards. The findings and other information provided here is expected to contribute toward the development of a new chapter in disaster prevention and mitigation of geotechnical structures.

Dam Breach Modelling and Risk Disposal - Jian-Min Zhang 2020-04-20

This proceedings book gathers contributions presented at the First International Conference on Embankment Dams (1st ICED, Beijing, 5-7 June 2020), which was the inaugural conference of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee TC210 on Embankment Dams. The contributions address five themes: (1) case histories on the failure of embankment dams and landslide dams; (2) dam failure process modelling; (3) soil mechanics for embankment dams; (4) dam risk assessment and management; and (5) monitoring, early warning and emergency response. These proceedings offer a unique resource that systematically presents recent dam breaching cases, their social impact, associated risk management strategies, and disposal methods for failed dams. It is an excellent reference guide for dam and levee engineers, flood safety officials, and emergency management agencies.

Advances in Deep Foundations - Yoshiaki Kikuchi 2007-06-21

Civil Engineering has recently seen enormous progress in the core field of the construction of deep foundations. This book is the result of the International Workshop on Recent Advances in Deep Foundations (IWDPF07), which was held in Yokosuka, Japan from the 1st to the 2nd of February, 2007. Topics under discussion in this book include recent rese

[Handbook of Coastal Disaster Mitigation for](#)

Engineers and Planners - Miguel Esteban

2015-07-29

The world's population is expected to increase to over 8 billion by 2020. About 60% of the total population of the world lives in coastal areas and 65% of the cities with a population of over 2.5 million are located in coastal areas. Written by an international panel of experts in the fields of engineering and risk management, The Handbook of Coastal Disasters Mitigation presents a coherent overview of 10 years of coastal disaster risk management and engineering, during which some of the most relevant events of recent time have taken place, including the Indian Ocean tsunami, hurricanes Katrina and Sandy in the United States or the 2011 Japanese tsunami. International case studies offer practical lessons on how disaster resilience can be improved in the future. Contains tools and techniques for analyzing and managing the risk of coastal disasters. Provides engineering measures for mitigating coastal vulnerability to tsunamis, tropical cyclones, and hurricanes. Includes crucial tactics for rehabilitation and reconstruction of the infrastructure.

APAC 2019 - Nguyen Trung Viet 2019-09-25

This book presents selected articles from the International Conference on Asian and Pacific Coasts (APAC 2019), an event intended to promote academic and technical exchange on coastal related studies, including coastal engineering and coastal environmental problems, among Asian and Pacific countries/regions. 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). 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).

Jetties and Wharfs - Crow 2021-04-04

For centuries, jetties and wharfs have been designed and built around the world and play an important role in contemporary ports. The difference in the use of jetties, piers and wharfs is that jetties are frequently used for the

transshipment and storage of light materials and ro-ro traffic, while piers are generally used for heavy loads like iron ore. That is why piers are mostly designed and constructed like quay walls (which are beyond the scope of this handbook). The designs were originally based on trial and error and the insights of those who dared to conquer local conditions, such as wind, waves, currents and soil composition. Design and construction techniques have since evolved into the designs we see on the coast or in river ports and seaports nowadays. The purpose of this handbook is to provide insight and guidelines regarding aspects that are important in the design of jetties and wharfs. Jetty-specific issues such as loads, interfaces between materials, installations on jetties and wharfs, as well as detailing aspects, are also covered. This handbook is part of a series of Dutch port infrastructure design recommendations that include the Quay Walls handbook and Jetties and Wharfs handbook.

Foundation Design Codes and Soil Investigation in View of International Harmonization and Performance Based Design - Y. Honjo 2002-01-01

The contributions contained in these proceedings are divided into three main sections: theme lectures presented during the pre-workshop lecture series; keynote lectures and other contributed papers; and a translation of the Japanese geotechnical design code.

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions - Francesco Silvestri 2019-07-19

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited, keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering (Rome, Italy, 17-20 June 2019). The contributions deal with recent developments and advancements as well as case histories, field monitoring, experimental characterization, physical and analytical modelling, and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them. The book is divided in the sections below: Invited

papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefact Projects Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up-to-date collection of recent experiences and developments, and aims at engineers, geologists and seismologists, consultants, public and private contractors, local national and international authorities, and to all those involved in research and practice related to Earthquake Geotechnical Engineering.

Geotechnical Risk and Safety - Yusuke Honjo
2009-06-01

Communication of risks within a transparent and accountable framework is essential in view of increasing mobility and the complexity of the modern society and the field of geotechnical engineering does not form an exception. As a result, modern risk assessment and management are required in all aspects of geotechnical issues, such as planning, desi

Structures Under Shock and Impact XV - S. Syngellakis 2018-10-23

Discussing the increasing need to protect civilian infrastructure and industrial facilities against unintentional loads arising from accidental impact and explosion events as well as terrorist attack, this book contains papers presented at the 15th International Conference on Structures under Shock and Impact. This successful conference series has been regularly held since it began in 1989 in Cambridge, Massachusetts. While advances have been made over this period many challenges remain, such as to develop more effective and efficient blast and impact mitigation approaches than currently exist. The primary focus remains the survivability of physical facilities and the protection of people, as well as reducing economic losses and impact on the environment, with emphasis on innovative protective technologies to support the needs of an economically growing, modern society. The application of this technology ranges from the safe transportation of people in several modes and the transportation of dangerous or combustible materials to defences against

natural hazard threats such as flood, wind, storm, tsunami and earthquake. Large scale testing is prohibitive and small scale laboratory testing results in scaling uncertainties.

Continuing research is therefore essential to improve knowledge on how these structures behave under a variety of load actions, some of which interact making it even more complex and difficult to define. Consequently, more use of advanced numerical simulations for load and structural response calculations is common practice in industry and research. Such calculations can directly be used in design and risk assessment calculations, but also be applied as input to more simplified design tools and design codes. Whether numerical or analytical modelling techniques are employed, experimental validation is vital for there to be acceptance of the approach to be used. The published research aims for the exchange of ideas and results to promote a better understanding of the critical issues relating to the testing behaviour, modelling and analyses of protective structures against blast and impact loading.

The Sand Compaction Pile Method - Masaki Kitazume 2005-08-04

The Sand Compaction Pile or (SCP) method is used frequently in construction to form compacted sand piles by vibration, dynamic impact or static excitation in soft ground. Originally developed in Japan to improve stability or compressibility and to prevent liquefaction failure in loose sand, the SCP method is now often applied to soft clay ground to ensure stability and reduce ground settlement. This book presents detailed descriptions of design, execution, quality control, equipment and assurance aspects of the SCP method, illustrating the theory with case studies from around Japan and also including a thorough overview of the existing literature on research and development carried out since the 1950s. Two final chapters cover vital aspects of design procedures for clay and sandy ground to enable practitioners to frame an appropriate set of parameters for durable and cost-efficient design.

SYNER-G: Typology Definition and Fragility Functions for Physical Elements at Seismic Risk - K. Pitilakis 2014-01-20

Fragility functions constitute an emerging tool for the probabilistic seismic risk assessment of buildings, infrastructures and lifeline systems. The work presented in this book is a partial product of a European Union funded research project SYNER-G (FP7 Theme 6: Environment) where existing knowledge has been reviewed in order to extract the most appropriate fragility functions for the vulnerability analysis and loss estimation of the majority of structures and civil works exposed to earthquake hazard. Results of other relevant European projects and international initiatives are also incorporated in the book. In several cases new fragility and vulnerability functions have been developed in order to better represent the specific characteristics of European elements at risk. Several European and non-European institutes and Universities collaborated efficiently to capitalize upon existing knowledge. State-of-the-art methods are described, existing fragility curves are reviewed and, where necessary, new ones are proposed for buildings, lifelines, transportation infrastructures as well as for utilities and critical facilities. Taxonomy and typology definitions are synthesized and the treatment of related uncertainties is discussed. A fragility function manager tool and fragility functions in electronic form are provided on extras.springer.com. Audience The book aims to be a standard reference on the fragility functions to be used for the seismic vulnerability and probabilistic risk assessment of the most important elements at risk. It is of particular interest to earthquake engineers, scientists and researchers working in the field of earthquake risk assessment, as well as the insurance industry, civil protection and emergency management agencies.

Soft Ground Engineering in Coastal Areas - Takashi Tsuchida 2003-01-01

This volume contains the papers contributed to the Nakase Memorial Symposium with the theme: Soft Ground Engineering in Coastal Areas, held in Yokusuka, Japan in November 2002. The meeting was organized as a tribute to Professor Ako Nakase, and was attended by 125 participants including his Japanese colleagues and friends from overseas. The topics covered included: fundamental Characteristics of Clay Soils; Estimation of consolidation settlement in

large-scale reclamation; Soil improvement methods in coastal areas; Reuse of dredged soils and behaviour of coastal structures under earthquake; and Evaluation for the stability of coastal structures.

Advances in Coastal Hydraulics - Panchang Vijay 2018-06-19

Advances in Coastal Hydraulics contains twelve papers that report on recent developments in several areas of coastal hydraulics. The papers, written by well-regarded authors, cover interesting topics such as the interaction of groundwater and coastal waters, the use of remote sensing for coastal applications, erosion in Arctic environments, the impact of marine vegetation on coastal hydrodynamics, new methods to examine the reliability of breakwater design, the development of marine kinetic energy, and methods for modeling coastal processes as well as their applications to small and large scales, such as a harbor in Hawaii (for design) and the extensive coast of India (for examining the effects of tsunamis and sea level rise). The developments presented in this book could serve not only as a reference book, but also as a starting point for new endeavors in the respective topics.

Physical Modelling in Geotechnics, Volume 1 - Andrew McNamara 2018-07-11

Physical Modelling in Geotechnics collects more than 1500 pages of peer-reviewed papers written by researchers from over 30 countries, and presented at the 9th International Conference on Physical Modelling in Geotechnics 2018 (City, University of London, UK 17-20 July 2018). The ICPMG series has grown such that two volumes of proceedings were required to publish all contributions. The books represent a substantial body of work in four years. Physical Modelling in Geotechnics contains 230 papers, including eight keynote and themed lectures representing the state-of-the-art in physical modelling research in aspects as diverse as fundamental modelling including sensors, imaging, modelling techniques and scaling, onshore and offshore foundations, dams and embankments, retaining walls and deep excavations, ground improvement and environmental engineering, tunnels and geohazards including significant contributions in the area of seismic engineering. ISSMGE TC104

have identified areas for special attention including education in physical modelling and the promotion of physical modelling to industry. With this in mind there is a special themed paper on education, focusing on both undergraduate and postgraduate teaching as well as practicing geotechnical engineers. Physical modelling has entered a new era with the advent of exciting work on real time interfaces between physical and numerical modelling and the growth of facilities and expertise that enable development of so called 'megafuges' of 1000gtonne capacity or more; capable of modelling the largest and most complex of geotechnical challenges. Physical Modelling in Geotechnics will be of interest to professionals, engineers and academics interested or involved in geotechnics, geotechnical engineering and related areas. The 9th International Conference on Physical Modelling in Geotechnics was organised by the Multi Scale Geotechnical Engineering Research Centre at City, University of London under the auspices of Technical Committee 104 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). City, University of London, are pleased to host the prestigious international conference for the first time having initiated and hosted the first regional conference, Eurofuge, ten years ago in 2008. Quadrennial regional conferences in both Europe and Asia are now well established events giving doctoral researchers, in particular, the opportunity to attend an international conference in this rapidly evolving specialist area. This is volume 1 of a 2-volume set.

Asian and Pacific Coasts 2011 - Joseph Hun-Wei Lee 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. Contents: Beach Erosion and Sediment Transport Climate Change and Sea Level Rise Coastal Infrastructure Developments Hydrodynamics of Offshore Structures Lowland Development and Reclamation Marine Ecology and Environments Marine and Offshore Wind Energy Oil Spill and Environmental Hazards Port Works (Dredging, Seawall Design, etc.) Sea Water Intrusion Tsunami, Waves and Tides Wastewater Disposal Wetlands Readership: Scientists, engineers, researchers, and management professionals in the fields of coastal, ocean, port and marine engineering.

Keywords: Coastal

Engineering; Tsunami; Waves; Hydrodynamics; Marine Energy; Wetlands

Geotechnics for Natural Disaster Mitigation and Management - A. Murali Krishna 2019-08-19

This volume presents recent advances and developments taking place in geotechnical aspects of natural disaster mitigation and management. The chapters of this book are based on the invited lectures delivered by eminent researchers at the Third Indo-Japan Workshop on Geotechnics for Natural Disaster Mitigation and Management. This book will be a useful reference for academicians, researchers, practicing professionals and, especially, students of the geotechnical fraternity.

Engineering for Earthquake Disaster Mitigation - Masanori Hamada 2014-06-04

Earthquake and tsunami disasters have been increasing rapidly and globally in the last quarter-century. The purpose of this book is to provide essential knowledge and information on the mitigation of earthquakes and tsunamis for graduate students, young researchers, and geotechnical engineers. It begins by presenting recent cases of earthquakes that have occurred in the world, referring to tsunamis and soil liquefaction and how to cope with such

disasters. The final chapter proposes strategies for disaster mitigation against in Japan earthquakes and tsunamis in the future.

Flexible Dolphins - Crow 2021-04-04

Millions of breasting and mooring dolphins have been installed in inland waterways adjacent to jetties and waiting facilities for ship-to-ship transshipment or as crash barriers in commercial port areas throughout the world. A dolphin is a marine structure that is frequently installed in ports, waterways and other places related to marine traffic. Dolphins are typically located adjacent to waterfront structures such as quay walls, jetties, locks and bridge piers. The purpose of a dolphin is threefold: Allow ships to berth and moor safely and efficiently Protect waterfront structures by acting as a crash barrier and sacrificial structure Direct and guide marine traffic by acting as a lead-in dolphin and navigation aid The main objective of this handbook is to provide engineers, asset managers, suppliers, tender teams, contractors and principals with such guidance on the design and construction of flexible dolphins by collecting and describing knowledge of and experience with these flexible marine structures. This handbook is intended to prevent extensive discussions during the design and construction stages of projects involving flexible dolphins. It is part of a series of Dutch port infrastructure design recommendations that include the Quay Walls handbook and Jetties and Wharfs handbook.

Ground Improvement Techniques - Patra, Nihar Ranjan

Systematic treatment of difficult ground as a separate paper in undergraduate and postgraduate courses is gaining ground in Indian universities. Earlier, these topics were taught under a variety of subjects like Advanced Geotechnical Engineering, Retaining Structures, Dams, Pavement Designs, Application of Geosynthetics, Application of Soil Mechanics, and so on. However, field requirement and advances in the technology make a strong case for a focused treatment of the subject which this book provides. A full-fledged paper in ground improvement techniques concentrates on the topics of soil stabilization, compaction, preloading, vertical drains, geosynthetics, in-situ reinforcements and modelling of soil

reinforcement. The book provides an overview of the basic concepts of ground modifications to difficult soils in a logical and illustrative way. It teaches how to apply alternative solutions to difficult foundation problems and evaluate their effectiveness before and after construction. The text is supported by a large number of examples, review and multiple choice questions, as well as practical problems. The book is intended to serve as a textbook for undergraduate and postgraduate students of Geotechnical, Transportation, Hydraulic and Environmental Engineering, and a reference work for practising civil engineers. Salient features 1. A well researched textbook on ground improvement techniques 2. Conforms to the syllabi of all Indian universities where the subject is taught 3. Written by an expert on the subject with a decade of teaching experience

The Deep Mixing Method - Masaki Kitazume 2013-02-21

The Deep Mixing Method (DMM), a deep in-situ soil stabilization technique using cement and/or lime as a stabilizing agent, was developed in Japan and in the Nordic countries independently in the 1970s. Numerous research efforts have been made in these areas investigating properties of treated soil, behavior of DMM improved ground under static and d

Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures

- George Deodatis 2014-02-10
Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY (ICOSSAR2013, New York, NY, USA, 16-20 June 2013), and covers major aspects of safety, reliability, risk and life-cycle performance of str
Handbook of Coastal and Ocean Engineering - Kim Young C 1998-05-13

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.

Very Large Floating Structures - C.M. Wang
2007-09-12

Groundbreaking and comprizing articles by expert contributors, this volume provides a comprehensive treatment of VLFSs and their relationship with the sea, marine habitats, the pollution of costal waters and tidal and natural current flow. It looks in-depth at: VLFS and the colonization of ocean space with their appearance in the waters off developed coastal cities wave properties, which is essential for estimating the loading on the VLFS as well as for modelling structure-fluid interactions hydroelastic and structural analysis of VLFS at an overall level and the cell level the analysis and design of breakwaters simulation models to understand the actual flow of water through the VLFS and to determine the drift forces for the mooring systems anti-corrosion and maintenance systems new research and developments, with emphasis on the Mega-Float, a 1 km long floating test runway. Well-illustrated with photographs, drawings, equations for mathematical modelling and analysis and extensively referenced, *Very Large Floating Structures* is ideal for professionals, academics and students of civil and structural engineering.
Coastal Structures 2011 - Shigeo Takahashi
2013-04-04

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 CSt2011 conference is the sixth in a series that highlights coastal disaster preparedness and ocean utilization in a changing climate. The conferences have frequently yielded milestone works and highly cited references in the field.
Contents: Volume 1: THESEUS-Coastal Risks in a Changing Climate Sea Level Rise Wave Overtopping Simulator Coastal Structure Project Numerical Simulations Ocean Energy Rubble Mound & Berm Breakwaters Movable Structures Wave-Structure Interaction Wave Force Wave Runup and Overtopping Rubble Mound Breakwater & Wave Transmission Probabilistic Design & Life Cycle Evaluation Wave & Vertical Breakwater Interaction Volume 2: Artificial Blocks Stability of

Blocks Numerical Modeling Numerical Wave-Structure Interaction Wave-Seabed-Structure Interaction Coastal Environment Storm Disaster Design Wave & Storm Surge Geotextile & Concrete Mattress Construction & Rehabilitation Case Studies Tsunami Wave Force Tsunami Prevention Measures Tsunami Simulation & Observation Shore Protection Erosion & Sediment Transport Geotechnical Design Poster Sessions
Readership: Graduates and researcher in coastal engineering, ocean engineering, civil engineering and environmental engineering.
Keywords: Coastal Structure; Storm; Tsunami; Coastal Disaster; Ocean Energy
Key Features: Multidisciplinary topics from coastal disaster prevention to ocean energy utilization Newest research results at the forefront of the field Many world-reknonned authors

Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision - Robby Caspeele
2018-10-31

This volume contains the papers presented at IALCCE2018, the Sixth International Symposium on Life-Cycle Civil Engineering (IALCCE2018), held in Ghent, Belgium, October 28-31, 2018. It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R. Khan lecture, 8 keynote lectures, and 390 technical papers from all over the world. Contributions relate to design, inspection, assessment, maintenance or optimization in the framework of life-cycle analysis of civil engineering structures and infrastructure systems. Life-cycle aspects that are developed and discussed range from structural safety and durability to sustainability, serviceability, robustness and resilience. Applications relate to buildings, bridges and viaducts, highways and runways, tunnels and underground structures, off-shore and marine structures, dams and hydraulic structures, prefabricated design, infrastructure systems, etc. During the IALCCE2018 conference a particular focus is put on the cross-fertilization between different sub-areas of expertise and the development of an overall vision for life-cycle analysis in civil engineering. The aim of the editors is to provide a valuable source of cutting edge information for

anyone interested in life-cycle analysis and assessment in civil engineering, including researchers, practising engineers, consultants, contractors, decision makers and representatives from local authorities.

Random Seas and Design of Maritime Structures - Yoshimi Goda 2010

Random waves are the most important constituent of the sea environment, as they make the design of maritime structures quite different from that of structures on land. In this book, the concept of random waves for the design of breakwaters, seawalls, and harbor structures is fully explored for easy comprehension by practicing engineers. Theoretical aspects are also discussed in detail for further studies by graduate students and researchers.

Springer Handbook of Ocean Engineering - Manhar R. Dhanak 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

Large Floating Structures - C.M. Wang 2014-09-06

This book surveys key projects that have seen the construction of large floating structures or have attained detailed conceptual designs. This compilation of key floating structures in a single volume captures the innovative features that mark the technological advances made in this field of engineering and will provide a useful

reference for ideas, analysis, design and construction of these unique and emerging urban projects to offshore and marine engineers, urban planners, architects and students.

Geotechnics for Sustainable Infrastructure Development - Phung Duc Long 2019-11-28

This book presents 09 keynote and invited lectures and 177 technical papers from the 4th International Conference on Geotechnics for Sustainable Infrastructure Development, held on 28-29 Nov 2019 in Hanoi, Vietnam. The papers come from 35 countries of the five different continents, and are grouped in six conference themes: 1) Deep Foundations; 2) Tunnelling and Underground Spaces; 3) Ground Improvement; 4) Landslide and Erosion; 5) Geotechnical Modelling and Monitoring; and 6) Coastal Foundation Engineering. The keynote lectures are devoted by Prof. Harry Poulos (Australia), Prof. Adam Bezuijen (Belgium), Prof. Delwyn Fredlund (Canada), Prof. Lidija Zdravkovic (UK), Prof. Masaki Kitazume (Japan), and Prof. Mark Randolph (Australia). Four invited lectures are given by Prof. Charles Ng, ISSMGE President, Prof. Eun Chul Shin, ISSMGE Vice-President for Asia, Prof. Norikazu Shimizu (Japan), and Dr. Kenji Mori (Japan).

Design of Movable Weirs and Storm Surge Barriers - Inland Navigation Commission. Working Group 26 2006

Coastal and Ocean Engineering Practice - Young C. Kim 2012

Successful coastal and ocean engineering projects rely on practical experience with technical tools and knowledge available to the engineer. Often, problems arise from projects that are too complex for theoretical description, which require that engineers exercise sound judgment in addition to reliance on past practical experience. This book focuses on the latest technology applied in design and construction, effective engineering methodology, unique projects and problems, design and construction challenges, and other lessons learned. In addition, unique practices in planning, design, construction, maintenance, and performance of coastal and ocean projects will be explored.

PIANC Yearbook 2013 - PIANC

Savannah Harbor Expansion Project Chatman County, Georgia and Jasper County, South Carolina - United States. Office of the Assistant Secretary of the Army (Civil Works) 2013

Proceedings of the Second International Conference on Press-in Engineering 2021, Kochi, Japan - Tatsunori Matsumoto

2021-06-24

The Second International Conference on Press-in Engineering (ICPE) 2021 was organized by the International Press-in Association (IPA). The conference is held every three years and the main theme this time is "Evolution and Social Contribution of Press-in Engineering for Infrastructure Development, and Disaster Prevention and Mitigation". These proceedings contain 2 keynote lectures, 3 state-of-the-art lectures and about 60 papers from more than 10 countries. This publication provides good practice guidance on the application of the press-in piling method, to satisfy the requirements of geo-structures which are embedded utilizing prefabricated piles. It covers actual examples of the press-in piling method applied to various geo-structures, such as temporary and permanent retaining walls,

cofferdams, cut-off walls, foundation piles etc. The content addresses the technical and construction issues relating to the selection of the appropriate type of press-in piling method, in accordance with required structural design criteria and soil and working conditions. The aim of this publication is to concisely describe practical uses of the press-in piling method for project owners, designers, contractors, academic researchers and other people in the construction industry.

The Premixing Method - Coastal Development Institute Tokyo 2005-12-20

The premixing method involves adding a small amount of cement to the soil used in reclamation. The cement reacts with the water in the soil to produce a stronger, non-liquifying material for construction. The premixing method can therefore reduce construction time, as the counter-measure work is carried out simultaneously with the reclamation process. In addition, the resultant material has enhanced bearing capacity, and there is a reduction in earth pressure due to the increase in cohesion. This book examines the premixing method in detail and is essential reading for coastal engineers, hydrologists, or construction engineers working in soft soil areas.