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2021-05-02

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Proceedings of Indian Geotechnical
Conference 2020 Springer Nature

This book presents selected papers from the 7th International Congress on Computational Mechanics and Simulation, held at IIT Mandi, India. The papers discuss the development of mathematical models representing physical phenomena and apply modern computing methods to analyze a broad range of applications including civil, offshore, aerospace, automotive, naval and nuclear structures. Special emphasis is given on simulation of

structural response under extreme loading such as earthquake, blast etc. The book is of interest to researchers and academics from civil engineering, mechanical engineering, aerospace engineering, materials engineering/science, physics, mathematics and other disciplines.

Analysis of Pile Foundations Subject to Static and Dynamic Loading CRC Press
Extended Abstracts of Research Papers Published in 5IYGEC: The 5th Indian Young Geotechnical Engineers Conference, organized by Indian Geotechnical Society to commemorate Silver Jubilee of IGS, Baroda Chapter.

Geotechnics Fundamentals and Applications in Construction CRC Press

"This conference was organized by Instituto Superior Tecnico under the auspices of: International Society of Soil mechanics and Geotechnical Engineering - - ISSMGE, TC18 on Deep Foundations and the Portuguese Geotechnical Society."--
T.p. verso.

Numerical Methods in Geotechnical Engineering IX, Volume 2 CRC Press

This volume presents select papers presented at the 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. The papers discuss advances in the fields of soil dynamics and geotechnical earthquake engineering. Some of the themes include seismic

design of deep & shallow foundations, soil structure interaction under dynamic loading, marine structures, etc. A strong emphasis is placed on connecting academic research and field practice, with many examples, case studies, best practices, and discussions on performance based design. This volume will be of interest to researchers and practicing engineers alike.

Small-strain Stiffness of Soils and Its Numerical Consequences Springer Nature

This book comprises select proceedings of the annual conference of the Indian Geotechnical Society. The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering. The book presents papers on geotechnical applications and case histories, covering topics such as (i) Characterization of Geomaterials and Physical Modelling; (ii) Foundations and Deep Excavations; (iii) Soil Stabilization and Ground Improvement; (iv) Geoenvironmental Engineering and Waste Material Utilization; (v) Soil Dynamics and Earthquake Geotechnical Engineering; (vi)

Earth Retaining Structures, Dams and Embankments; (vii) Slope Stability and Landslides; (viii) Transportation Geotechnics; (ix) Geosynthetics Applications; (x) Computational, Analytical and Numerical Modelling; (xi) Rock Engineering, Tunnelling and Underground Constructions; (xii) Forensic Geotechnical Engineering and Case Studies; and (xiii) Others Topics: Behaviour of Unsaturated Soils, Offshore and Marine Geotechnics, Remote Sensing and GIS, Field Investigations, Instrumentation and Monitoring, Retrofitting of Geotechnical Structures, Reliability in Geotechnical Engineering, Geotechnical Education, Codes and Standards, and other relevant topics. The contents of this book are of interest to researchers and practicing engineers alike.

Basics of Foundation Design CRC Press
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.

Geotechnical Engineering and Sustainable Construction Shweta Publications
This book includes the best-selected papers on the latest advancements in

underground structures and geological engineering. The ongoing population growth is resulting in rapid urbanization, new infrastructure development, and increasing demand for the Earth's natural resources (e.g., water, oil/gas, minerals). This, together with the current climate change and increasing impact of natural hazards, implies that the engineering geology profession is called upon to respond to new challenges. It is recognized that these challenges are particularly relevant in the developing and newly industrialized regions.

Proceedings of the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2018), June 25-27, 2018, Porto, Portugal CRC Press

Geotechnical engineers are at work worldwide, contributing to sustainable living and to the creation of safe, economic and pleasant spaces to live, work and relax. With increased pressure on space and resources, particularly in cities, their expertise becomes ever more important. This book presents the proceedings of the 5th iYGEC, International Young Geotechnical

Engineers' Conference, held at Marne-la-Vallée, France, from 31 August to 1 September 2013. It is also the second volume in the series *Advances in Soil Mechanics and Geotechnical Engineering*. The papers included here cover topics such as laboratory and field testing, geology and groundwater, earthworks, soil behavior, constitutive modeling, ground improvement, earthquake, retaining structures, foundations, slope stability, tunnels and observational methods. The iYGEC conference series brings together students and young people at the start of their career in the geotechnical professions to share their experience, and this book will be of interest to all those whose work involves soil mechanics and geotechnical engineering. The cover shows Dieppe harbour breakwater project, Louis-Alexandre de Cessart, 1776-1777. © École Nationale des Ponts et Chaussées. Proceedings of the Conference on Sustainable Construction Materials and Technologies, 11-13 June 2007, Coventry, United Kingdom CRC Press

This book presents select proceedings of the National conference on Geo-Science and Geo-Structures (GSGS 2020). It

provides sustainable solutions to various challenges encountered in the field of geotechnical engineering. The topics presented include advanced characterization to study the behavior of geomaterials, shallow and deep foundations including tunneling, use of geosynthetics and other soil reinforcing materials in minimizing slope failures and landslides, dynamics of soils and foundations, and its connection with energy geotechnics, transportation geotechnics, and offshore geotechnics. The book further highlights various aspects of ground improvement techniques by incorporating the use of industrial by-products, forensic analyses of geo-structures, instrumentation and sensing techniques in geotechnical engineering and issues associated with geo-environmental engineering. The book will be a valuable reference for budding researchers, academicians, practitioners and policymakers interested in sustainable practices associated with geotechnical engineering and related domains. Analysis and Design of Passive Pile in Open Excavation IOS Press

Natural soft soils are very complex

materials. As construction activities increasingly take place in poor ground conditions, ground improvement is often required. However, design practices for ground improvement were for long at best crude and conservative, and at worst unsafe. Although new construction and field observation techniques have been developed, the design of ground improvement is still a challenge. This book provides a comprehensive overview of recent developments in constitutive modelling, numerical implementation issues, and coupled and dynamic analysis. There is a special section dedicated to the numerical modelling of ground improvement techniques, with applications of numerical methods for solving practical boundary value problems, such as deep excavations, tunnels, shallow and deep foundations, embankments and slopes. These proceedings not only contain the latest scientific research, but also give valuable insight into the applications of numerical methods in solving practical engineering problems, thus narrowing the gap between advanced academic research and practical application.

Proceedings of the 7th Indian Young

Geotechnical Engineers Conference

Lulu.com

This book intends directly the practical engineers, who will be of great interest in reading the interesting chapters. Earthwork projects are critical components in civil construction and often require detailed management techniques and unique solution methods to address failures. Being earthbound, earthwork is influenced by geomaterial properties at the onset of a project. Hence, an understanding of the in-situ soil properties and all geotechnical aspects is essential. Analytical methods for earth structures remain critical for researchers due to the mechanical complexity of the system. Striving for better earthwork project management, the geotechnical engineering community continues to find improved testing techniques for determining sensitive properties of soil and rock, including stress wave-based, non-destructive testing methods. To minimize failure during earthwork construction, past case studies and data may reveal useful lessons and information to improve project management and minimize economic losses.

Analytical Methods in Petroleum Upstream Applications CRC Press

Infrastructure is the key to creating a sustainable community. It affects our future well-being as well as the economic climate. Indeed, the infrastructure we are building today will shape tomorrow's communities. GeoMEast 2017 created a venue for researchers and practitioners from all over the world to share their expertise to advance the role of innovative geotechnology in developing sustainable infrastructure. 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. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

Proceedings of the 1st GeoMEast International Congress and Exhibition,

Egypt 2017 on Sustainable Civil Infrastructures Springer

This book comprises select proceedings of the Indian Geotechnical Conference 2020 (IGC2020) focusing on recent developments in the field of transportation geotechnics, scour and erosion, offshore geotechnics, and environmental geotechnology. The contents are useful to academicians, researchers, practitioners and policymakers to understand and tackle the challenges in an efficient manner and to adopt appropriate sustainable geotechnical engineering solutions.

Seismic Performance of Soil-Foundation-Structure Systems

Geotechnics of Soft Soils: Focus on Ground Improvement Proceedings of the 2nd International Workshop held in Glasgow, Scotland, 3 - 5 September 2008
This volume contains papers presented during the first international PLAXIS symposium. Topics covered include: general geo-technical aspects; tunnels and deep excavations, and education and research. This pack is meant for the user of the PLAXIS program, as well as engineers and researchers.

Modeling and Computation in Engineering II Springer Nature

This book presents computational tools and design principles for piles used in a wide range of applications and for different loading conditions. The chapters provide a mixture of basic engineering solutions and latest research findings in a balanced manner. The chapters are written by world-renowned experts in the field. The materials are presented in a unified manner based on both simplified and rigorous numerical methods. The first four chapters present the basic elements and steps in analysis of piles under static and cyclic loading together with clear references to the appropriate design regulations in Eurocode 7 when relevant. The analysis techniques cover conventional code-based methods, solutions based on pile-soil interaction springs, and advanced 3D finite element methods. The applications range from conventional piles to large circular steel piles used as anchors or monopiles in offshore applications. Chapters 5 to 10 are devoted to dynamic and earthquake analyses and design. These chapters cover a range of solutions from dynamic pile-soil

springs to elasto-dynamic solutions of large pile groups. Both linear and nonlinear soil behaviours are considered along with response due to dynamic loads and earthquake shaking including possible liquefaction. The book is unique in its unified treatment of the solutions used for static and dynamic analysis of piles with practical examples of application. The book is considered a valuable tool for practicing engineers, graduate students and researchers.

Proceedings of the Indian Geotechnical Conference 2019 CRC Press

This book contains selected articles from the Second International Conference on Geotechnical Engineering-Iraq (ICGE-Iraq) held in Akre/Duhok/Iraq from June 22 to 23, 2021, to discuss the challenges, opportunities, and problems of geotechnical engineering in projects. Also, the conference includes modern applications in structural engineering, materials of construction, construction management, planning and design of structures, and remote sensing and surveying engineering. The ICGE-Iraq organized by the Iraqi Scientific Society of

Soil Mechanics and Foundation Engineering (ISSSMFE) in cooperation with Akre Technical Institute / Duhok Polytechnic University, College of Engineering /University of Baghdad, and Civil Engineering Department/University of Technology. The book covers a wide spectrum of themes in civil engineering, including but not limited to sustainability and environmental-friendly applications. The contributing authors are academic and researchers in their respective fields from several countries. This book will provide a valuable resource for practicing engineers and researchers in the field of geotechnical engineering, structural engineering, and construction and management of projects.

Recent Advances in Computational Mechanics and Simulations Springer Nature

Soft soils present particular challenges to engineers and an understanding of the specific characteristics of these soils is indispensable. Laboratory techniques such

as numerical modelling, theoretical analysis and constitutive modelling give new insights into soft soil material behaviour, while large-scale testing in the field provides important information in areas such as slope stability and soft soil improvements. This collection of papers from the Fourth International Conference on Soft Soil Engineering, Vancouver, 2006, presents an international appraisal of current research and new advances in engineering practices, illustrating the theory with relevant case studies.

Geotechnical professionals, engineers, academics and researchers working in the areas of soft ground engineering and soft soil engineering will find this a valuable book.

Latest Advancements in Underground Structures and Geological Engineering CRC Press

Geotechnics of Soft Soils: Focus on Ground Improvement Proceedings of the 2nd International Workshop held in Glasgow, Scotland, 3 - 5 September 2008 CRC Press

Proceedings of Indian Geotechnical Conference 2020 Volume 3 CRC Press
Reflecting the current research and advances made in the application of numerical methods in geotechnical engineering, this volume details proceedings of the Ninth International Symposium on 'Numerical Models in Geomechanics - NUMOG IX' held in Ottawa, Canada, 25-27 August 2004. Highlighting a number of new developments in the area, papers concentrate upon the following four main areas: * constitutive relations for geomaterials * numerical algorithms: formulation and performance * modelling of transient, coupled and dynamic problems * application of numerical techniques to practical problems. Representing the most advanced, modern findings in the field, Numerical Models in Geomechanics is a comprehensive and impeccably-researched text, ideal for students and researchers as well as practising engineers.