

Modelling Pile Capacity Using Generalised Regression

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Constitutive Laws for Engineering Materials
Design of Pile Foundations
Assessment of Capacity and Seismic Demand on Axially Loaded Piles in Soft Clayey Deposits
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Analysis, Design, Construction, and Testing of Deep Foundations

Constitutive Laws for Engineering Materials

This text presents findings from the 3rd International Geotechnical Seminar, held in Ghent, Belgium. Topics include: American experiences with large diameter bored piles; case histories; static, dynamic and pile integrity testing; and installation parameters and capacity of screwed piles.

Design of Pile Foundations

Assessment of Capacity and Seismic Demand on Axially Loaded Piles in Soft Clayey Deposits

Ei Cumulative Index, 1982-1984

It has become increasingly important, particularly in an urban environment, to predict soil behaviour and to confine the settlement or deformation of buildings adjacent to construction sites. One important factor is the choice of construction procedure for the installation of piles, sheet pile walls, anchors or for soil improvement techniques, ground freezing and tunnelling methods. The modelling of construction processes, which are frequently associated with large deformations of the soil and with strong changes in the structure of the soil around the construction plant, in the case of, for example, a drill, a bit, a vibrator, or an excavation tool, requires sophisticated and new methods in numerical modelling. Often the simulation of the construction procedure is neglected in the calculations. Such methods are described and discussed in this book, as are examples of the methods applied to geotechnical practice, field and laboratory testing as well as case studies. This volume provides a valuable source of reference for scientists in geotechnical engineering and numerical modelling, geotechnical engineers, post graduate students, construction companies and consultants, manufacturers of geotechnical construction plants and software suppliers and developers of geotechnical construction methods.

Transactions

Modeling in Geotechnical Engineering

HRIS Abstracts

Geotechnical Abstracts

OTC 20-year Index, 1969-1988

One of the major difficulties in predicting the capacity of pipe piles in sand has resulted from a lack of understanding of the physical processes that control the behavior of piles during installation and loading. This monograph presents a detailed blue print for developing experimental facilities necessary to identify these processes. These facilities include a unique instrumented double-walled pipe-pile that is used to delineate the frictional stresses acting against the external and internal surfaces of the pile. The pile is fitted with miniature pore-pressure transducers to monitor the generation of pore water

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pressure during installation and loading. A fast automatic laboratory pile hammer capable of representing the phenomena that occur during pile driving was also developed and used.

Journal of Scientific and Industrial Research

Design in Offshore Structures

Transactions

Transactions of the Society of Petroleum Engineers

Scientia Iranica

An interdisciplinary introduction to key-concepts and project applications of energy geostructures

Proceedings

Transactions of the American Society of Civil Engineers

Government Reports Announcements & Index

ICPMG2014 - Physical Modelling in Geotechnics

The 8th International Conference on Physical Modelling in Geotechnics (ICPMG2014) was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for

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Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering. This quadrennial conference is the traditional focal point for the physical modelling community of academics, scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering. These proceedings, together with the seven previous proceedings dating from 1988, present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years. These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer-reviewed papers from 26 countries. They are organised in 14 themes, presenting the latest developments in physical modelling technology, modelling techniques and sensors, through a wide range of soil-structure interaction problems, including shallow and deep foundations, offshore geotechnics, dams and embankments, excavations and retaining structures and slope stability. Fundamental aspects of earthquake engineering, geohazards, ground reinforcements and improvements, and soil properties and behaviour are also covered, demonstrating the increasing complexity of modelling arising from state-of-the-art technological developments and increased understanding of similitude principles. A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering.

Deep Foundations on Bored and Auger Piles - BAP III

Modeling in Geomechanics

Geotechnical Modeling and Applications

Vols. 29-30 include papers of the International Engineering Congress, Chicago, 1893; v. 54 includes papers of the International Engineering Congress, St. Louis, 1904.

Soil Properties Evaluation from Centrifugal Models and Field Performance

Modeling in Geotechnical Engineering is a one stop reference for a range of computational models, the theory explaining how they work, and case studies describing how to apply them. Drawing on the expertise of contributors from a range of disciplines including geomechanics, optimization, and computational engineering, this book provides an interdisciplinary guide to this subject which is suitable for readers from a range of backgrounds. Before tackling the computational approaches, a theoretical understanding of the physical systems is provided that helps readers to fully grasp the

significance of the numerical methods. The various models are presented in detail, and advice is provided on how to select the correct model for your application. Provides detailed descriptions of different computational modelling methods for geotechnical applications, including the finite element method, the finite difference method, and the boundary element method Gives readers the latest advice on the use of big data analytics and artificial intelligence in geotechnical engineering Includes case studies to help readers apply the methods described in their own work

Third International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics [proceedings]

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Getty and Cities Service Shale Oil Projects, Garfield County

Oceanic Abstracts

Petroleum Abstracts

General Catalog

Numerical Methods in Geotechnical Engineering

Modeling in Geomechanics Edited by Musharraf Zaman The University of Oklahoma, USA Giancarlo Gioda Politecnico di Milano, Italy John Booker University of Sydney, Australia Geomechanics is an interdisciplinary field involving the study of natural and man-made systems with emphasis on the mechanics of various interacting phenomena. It comprises numerous aspects of engineering and scientific disciplines, which share common bases in mathematics, mechanics and physics. In recent years, with the extraordinary growth of computing power and resources, progress in the generation of new theories

and techniques for the analysis of geomechanics problems has far surpassed their actual use by practitioners. This has led to a gap between our ability to deal with complex, inter-disciplinary problems in geomechanics and the actual impact of these advances on engineering practice. This book contains contributions from an international group of accomplished researchers and practitioners from various branches of soil and rock engineering, and presents the latest theoretical developments and practical applications of modeling in geomechanics. Chapters are grouped into four main sections: * Computational procedures * Constitutive modeling and testing * Modeling and simulation * Applications Efforts have been made to include recent developments and provide suggestions and examples as to how these can be applied in modeling actual engineering problems. Researchers, practitioners and students in geomechanics, mechanics of solids, soil and rock engineering will find this book an invaluable reference.

Journal of Petroleum Technology

Journal of the Geotechnical Engineering Division

Numerical Modelling of Construction Processes in Geotechnical Engineering for Urban Environment

Urban Growth Models

Canadian Geotechnical Journal

Proceedings - Offshore Technology Conference

GSP 17 contains eight papers presented at a session of the ASCE National Convention, held in Nashville, Tennessee, May 10, 1988. Sponsored by the Geotechnical Engineering Division of ASCE.

Artificial Intelligence Applications in Civil and Structural Engineering

Numerical Methods in Geotechnical Engineering contains the proceedings of the 8th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2014, Delft, The Netherlands, 18-20 June 2014). It is the eighth in a series of conferences organised by the European Regional Technical Committee ERTC7 under the auspices of the International

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Analysis and Design of Energy Geostructures

GSP 88 contains 19 papers presented at the Offshore Technology Research Center Conference, held in Austin, Texas, April 29-30, 1999.

Dissertation Abstracts International

Contains a selection of papers presented at The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering, held from 13-15 September 1999, at Oxford, England.

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