

Zhongxuan Yang • Richard Jardine • Wangbo Guo • Fiona Chow

# A Comprehensive Database of Tests on Axially Loaded Piles Driven in Sand

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# Comprehensive Database Axially Loaded Driven

**Joacim Rocklöv**



### **Comprehensive Database Axially Loaded Driven:**

*A Comprehensive Database of Tests on Axially Loaded Piles Driven in Sand* Zhongxuan Yang, Richard Jardine, Wangbo Guo, Fiona Chow, 2015-11-11 A Comprehensive Database of Tests on Axially Loaded Driven Piles in Sands reviews the critical need to develop better load test databases for piles driven in sands The key quality parameters population of current entries and reporting formats are described before offering preliminary results obtained from comparisons between axial capacities calculated by various predictive approaches and site measurements This book also shows that the simplified and offshore ICP and UWA variants proposed by some practitioners are over conservative and that their use could be discontinued The new pile capacity and stiffness database offers a broad scope for evaluating potential prediction biases relating to a wide range of soil and pile parameters Submission of further high quality tests for inclusion in regularly updated versions is encouraged Presents a comprehensive and updated database for piles driven in predominantly silica sands Features reviews of the design procedures for driven piles in sand Assesses the performance of various mainstreams design procedures applied for piles driven in sand Provides comprehensive information of case histories of pile load tests

**Proceedings of China-Europe Conference on Geotechnical Engineering** Wei Wu, Hai-Sui Yu, 2018-08-02 This book compiles the second part of contributions to the China Europe Conference on Geotechnical Engineering held 13-16 August 2018 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

**Model Uncertainties in Foundation Design** Chong Tang, Kok-Kwang Phoon, 2021-03-17 Model Uncertainties in Foundation Design is unique in the compilation of the largest and the most diverse load test databases to date covering many foundation types shallow foundations spudcans driven piles drilled shafts rock sockets and helical piles and a wide range of ground conditions soil to soft rock All databases with names prefixed by NUS are available upon request This book presents a comprehensive evaluation of the model factor mean bias and coefficient of variation COV for ultimate and serviceability limit state based on these databases These statistics can be used directly for AASHTO LRFD calibration Besides load test databases performance databases for other geo structures and their model factor statistics are provided Based on this extensive literature survey a practical three tier scheme for classifying the model uncertainty of geo structures according to the model factor mean and COV is proposed This empirically grounded scheme can underpin the calibration of resistance factors as a function of the degree of understanding a concept

already adopted in the Canadian Highway Bridge Design Code and being considered for the new draft for Eurocode 7 Part 1 EN 1997 1 202x The helical pile research in Chapter 7 was recognised by the 2020 ASCE Norman Medal

**Numerical Methods in Geotechnical Engineering IX, Volume 2** António S. Cardoso, José L. Borges, Pedro A. Costa, António T. Gomes, José C. Marques, Castorina S. Vieira, 2018-06-27 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2018 Porto Portugal 25 27 June 2018 The papers cover a wide range of topics in the field of computational geotechnics providing an overview of recent developments on scientific achievements innovations and engineering applications related to or employing numerical methods They deal with subjects from emerging research to engineering practice and are grouped under the following themes Constitutive modelling and numerical implementation Finite element discrete element and other numerical methods Coupling of diverse methods Reliability and probability analysis Large deformation large strain analysis Artificial intelligence and neural networks Ground flow thermal and coupled analysis Earthquake engineering soil dynamics and soil structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns and pipelines Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences 1986 Stuttgart Germany 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands Numerical Methods in Geotechnical Engineering IX updates the state of the art regarding the application of numerical methods in geotechnics both in a scientific perspective and in what concerns its application for solving practical boundary value problems The book will be much of interest to engineers academics and professionals involved or interested in Geotechnical Engineering This is volume 2 of the NUMGE 2018 set

**Geotechnical Instrumentation for Monitoring Field Performance** John Dunnicliff, 1993-10-06 The first book on the subject written by a practitioner for practitioners Geotechnical Instrumentation for Monitoring Field Performance Geotechnical Instrumentation for Monitoring Field Performance goes far beyond a mere summary of the technical literature and manufacturers brochures it guides reader through the entire geotechnical instrumentation process showing them when to monitor safety and performance and how to do it well This comprehensive guide Describes the critical steps of planning monitoring programs using geotechnical instrumentation including what benefits can be achieved and how construction specifications should be written Describes and evaluates monitoring methods and recommends instruments for monitoring groundwater pressure deformations total stress in soil stress change in rock temperature and load and strain in structural members Offers detailed practical guidelines on instrument calibrations installation and maintenance and on the collection processing and interpretation of instrumentation data Describes the role of geotechnical instrumentation during

the construction and operation phases of civil engineering projects including braced excavations embankments on soft ground embankment dams excavated and natural slopes underground excavations driving piles and drilled shafts Provides guidelines throughout the book on the best practices **Frontiers in Offshore Geotechnics** Susan Gourvenec, Mark

Cassidy, 2005-10-13 The present work contains 150 papers that were presented during ISEC 03 the 3rd International Conference on Structural and Construction Engineering that was held in Tokuyama College of Technology Shunan Japan from September 20 to 23 2005 The theme of the conference was Collaboration and Harmony of Creative Systems The conference was to encourage and assist the collaboration of any and all kinds of structural system and construction engineering using information technology in an environmentally friendly manner This book contains these challenging papers

*Reliability and Statistics in Geotechnical Engineering* Gregory B. Baecher, John T. Christian, 2005-08-19 Risk and reliability analysis is an area of growing importance in geotechnical engineering where many variables have to be considered Statistics reliability modeling and engineering judgement are employed together to develop risk and decision analyses for civil engineering systems The resulting engineering models are used to make probabilistic predictions which are applied to geotechnical problems Reliability Statistics in Geotechnical Engineering comprehensively covers the subject of risk and reliability in both practical and research terms Includes extensive use of case studies Presents topics not covered elsewhere spatial variability and stochastic properties of geological materials No comparable texts available Practicing engineers will find this an essential resource as will graduates in geotechnical engineering programmes *Databases for Data-Centric*

*Geotechnics* Chong Tang, Kok-Kwang Phoon, 2024-12-20 Databases for Data Centric Geotechnics forms a definitive reference and guide to databases in geotechnical and rock engineering to enhance decision making in geotechnical practice using data driven methods This second volume pertains to geotechnical structures The opening chapter presents a substantial survey of performance databases and the effectiveness of our prediction models in matching the field measurements in these databases based on 1 full scale field tests 2 39 prediction exercises organized as a part of international conferences and 3 comparison between numerical analyses and in situ or field measurements conducted by the French LCPC The focus is on the evaluation of the statistical degree of confidence in predicting various quantities of interest such as capacity and deformation The following 18 chapters then present databases on the performance of shallow foundations spread foundations deep foundations anchors and pipelines retaining systems and excavations and landslides The databases were compiled from studies undertaken in many countries such as Australia Belgium Bolivia Brazil Canada China Egypt France Germany Hungary Iran Ireland Japan Kenya Malaysia Netherlands Norway Poland Portugal South Africa the United Kingdom and the United States This volume on geotechnical structures is a companion to the volume on site characterization Databases for Data Centric Geotechnics represents the most diverse and comprehensive assembly of database research in a single publication consisting of two volumes to date It follows from Model Uncertainties for Foundation Design also published

by CRC Press and suits specialist geotechnical engineers researchers and graduate students Chapter 10 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution CC BY 4.0 license

**5th International Conference on New Developments in Soil Mechanics and Geotechnical Engineering**  
Cavit Atalar, Feyza Çinicioğlu, 2023-03-12 This volume highlights the latest advances and innovations in the field of soil mechanics and geotechnical engineering as presented by leading international researchers and engineers at the 5th International Conference on New Developments in Soil Mechanics and Geotechnical Engineering ZM held in Nicosia Northern Cyprus on June 30 July 2 2022 It covers a diverse range of topics such as soil properties and characterization shallow and deep foundations soil improvement excavations support systems earth retaining structures and underground systems earthquake geotechnical engineering stability of slopes and landslides fills and embankments environmental preservation water and energy modelling and analyses in geotechnical engineering The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists

*Proceedings of the 3rd Vietnam Symposium on Advances in Offshore Engineering* Dat Vu Khoa Huynh, Hong Doan, Tri Mai Cao, Phil Watson, 2025-05-03 This book compiles a selection of peer reviewed papers presented at the 3rd Vietnam Symposium on Advances in Offshore Engineering VSOE 2024 held from December 12 14 in Hanoi Vietnam Featuring contributions from leading researchers industry experts and policymakers the book explores innovative solutions and interdisciplinary approaches to tackle the challenges of sustainable offshore infrastructure With a focus on cutting edge technologies and strategies the book covers topics such as offshore geotechnics renewable energy systems subsea infrastructure environmental sustainability risk assessment and digital advancements like artificial intelligence and digital twins It also emphasizes Vietnam's significant contributions to offshore energy development exploring opportunities in offshore wind energy oil and gas innovations and the transformation of decommissioned platforms into sustainable renewable energy solutions This collection serves as an essential resource for graduate students academics engineers and professionals involved in offshore engineering energy systems and marine infrastructure offering insights into emerging trends practical applications and innovative solutions

*Behavior of Pipe Piles in Sand* Magued Iskander, 2011-01-17 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 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

Uncertainty, Modeling, and Decision Making in Geotechnics Kok-Kwang Phoon,Takayuki Shuku,Jianye Ching,2023-12-11

Uncertainty Modeling and Decision Making in Geotechnics shows how uncertainty quantification and numerical modeling can complement each other to enhance decision making in geotechnical practice filling a critical gap in guiding practitioners to address uncertainties directly The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling In particular it provides guidance on the selection of realistic statistics and a cost effective accessible method to address different design objectives and for different problem settings and illustrates the value of this to decision making using realistic examples Bringing together statistical characterization reliability analysis reliability based design probabilistic inverse analysis and physical insights drawn from case studies this reference guide from an international team of experts offers an excellent resource for state of the practice uncertainty informed geotechnical design for specialist practitioners and the research community

**Architects' Data** Ernst Neufert,2019-08-05 An indispensable tool for the beginning stages of designing and planning a building project This new edition of a classic bestselling text provides in one concise volume the essential information needed to form the framework for the more detailed design and development of any building project Organized largely by building type it covers planning criteria and considerations of function and siting and with over 6200 diagrams it provides a mass of data on spatial requirements Most of the featured illustrations are dimensioned and each building type includes plans sections site layouts and design details The book also includes an extensive bibliography and detailed set of metric imperial conversion tables Architects Data starts with the basics of designing for a new building project before moving on to covering everything an architect needs to know It also looks at the design styles and specifications for creating different types of structures such as those made for residential religious cultural sports medical and other types of occupation Covers user requirements planning criteria basic dimensions and considerations of function and siting Includes numerous examples and over 6200 illustrations and tables 5th English edition of the classic international reference for architects Architects Data is an excellent resource for architects building surveyors space planners and design and build contractors everywhere

*Handbook of Neural Computation* Pijush Samui,Sanjiban Sekhar Roy,Valentina Emilia Balas,2017-07-18 Handbook of Neural Computation explores neural computation applications ranging from conventional fields of mechanical and civil engineering to electronics electrical engineering and computer science This book covers the numerous applications of artificial and deep neural networks and their uses in learning machines including image and speech recognition natural language processing and risk analysis Edited by renowned authorities in this field this work is comprised of articles from reputable industry and academic scholars and experts from around the world Each contributor presents a specific research issue with its recent and future trends As the demand rises in the engineering and medical industries for neural networks and other machine learning methods to solve different types of operations such as data prediction

classification of images analysis of big data and intelligent decision making this book provides readers with the latest cutting edge research in one comprehensive text Features high quality research articles on multivariate adaptive regression splines the minimax probability machine and more Discusses machine learning techniques including classification clustering regression web mining information retrieval and natural language processing Covers supervised unsupervised reinforced ensemble and nature inspired learning methods

**Handbook Of Biomimetics And Bioinspiration: Biologically-driven Engineering Of Materials, Processes, Devices, And Systems (In 3 Volumes)** Esmail Jabbari, Luke P Lee, Amir Ghaemmaghani, Ali Khademhosseini, Deok-ho Kim, 2014-04-29

Global warming pollution food and water shortage cyberspace insecurity over population land erosion and an overburdened health care system are major issues facing the human race and our planet These challenges have presented a mandate to develop natural or green technologies using nature and the living system as a guide to rationally design processes devices and systems This approach has given rise to a new paradigm one in which innovation goes hand in hand with less waste less pollution and less invasiveness to life on earth Bioinspiration has also led to the development of technologies that mimic the hierarchical complexity of biological systems leading to novel highly efficient more reliable multifunctional materials devices and systems that can perform multiple tasks at one time This multi volume handbook focuses on the application of biomimetics and bioinspiration in medicine and engineering to produce miniaturized multi functional materials devices and systems to perform complex tasks Our understanding of complex biological systems at different length scales has increased dramatically as our ability to observe nature has expanded from macro to molecular scale leading to the rational biologically driven design to find solution to technological problems in medicine and engineering The following three volume set covers the fields of bioinspired materials electromechanical systems developed from concepts inspired by nature and tissue models respectively The first volume focuses on the rational design of nano and micro structured hierarchical materials inspired by the relevant characteristics in living systems such as the self cleaning ability of lotus leaves and cicadas wings the superior walking ability of water striders the anti fogging function of mosquitoes eyes the water collecting ability of Namib Desert Beetles and spider silk the high adhesivity of geckos feet and rose petals the high adhesivity of mussels in wet aquatic environments the anisotropic wetting of butterflies wings the anti reflection capabilities of cicadas wings the self cleaning functionality of fish scales shape anisotropy of intracellular particles the dielectric properties of muscles the light spectral characteristics of plant leaves the regeneration and self healing ability of earthworms the self repairing ability of lotus leaves the broadband reflectivity of moths eyes the multivalent binding self assembly and responsiveness of cellular systems the biomineral formation in bacteria plants invertebrates and vertebrates the multi layer structure of skin the organization of tissue fibers DNA structures with metal mediated artificial base pairs and the anisotropic microstructure of jellyfish mesogloea In this volume sensor and microfluidic technologies combined with surface patterning are explored for the diagnosis and monitoring of diseases The high throughput



combinatorial testing of biomaterials in regenerative medicine is also covered The second volume presents nature oriented studies and developments in the field of electromechanical devices and systems These include actuators and robots based on the movement of muscles algal antenna and photoreception the non imaging light sensing system of sea stars the optical system of insect ocellus smart nanochannels and pumps in cell membranes neuromuscular and sensory devices that mimic the architecture of peripheral nervous system olfaction based odor sensing cilia mimetic microfluidic systems the infrared sensory system of pyrophilous insects ecologically inspired multizone temperature control systems cochlea and surface acoustic wave resonators crickets cercal system and flow sensing abilities locusts wings and flapping micro air vehicles the visual motion sensing of flying insects hearing aid devices based on the human cochlea the geometric perception of tortoises and pigeons the organic matter sensing capability of cats and dogs and the silent flight of rats The third volume features engineered models of biological tissues These include engineered matrices to mimic cancer stem cell niches in vitro models for bone regeneration models of muscle tissue that enable the study of cardiac infarction and myopathy 3D models for the differentiation of embryonic stem cells bioreactors for in vitro cultivation of mammalian cells human lung liver and heart tissue models topographically defined cell culture models ECM mimetic tissue printing biomimetic constructs for regeneration of soft tissues and engineered constructs for the regeneration of musculoskeletal and corneal tissue This three volume set is a must have for anyone keen to understand the complexity of biological systems and how that complexity can be mimicked to engineer novel materials devices and systems to solve pressing technological challenges of the twenty first century

**Key Features** The only handbook that covers all aspects of biomimetics and bioinspiration including materials mechanics signaling and informatics Contains 248 colored figures

*Handbook of Probabilistic Models* Pijush Samui, Dieu Tien Bui, Subrata Chakraborty, Ravinesh Deo, 2019-10-05 Handbook of Probabilistic Models carefully examines the application of advanced probabilistic models in conventional engineering fields In this comprehensive handbook practitioners researchers and scientists will find detailed explanations of technical concepts applications of the proposed methods and the respective scientific approaches needed to solve the problem This book provides an interdisciplinary approach that creates advanced probabilistic models for engineering fields ranging from conventional fields of mechanical engineering and civil engineering to electronics electrical earth sciences climate agriculture water resource mathematical sciences and computer sciences Specific topics covered include minimax probability machine regression stochastic finite element method relevance vector machine logistic regression Monte Carlo simulations random matrix Gaussian process regression Kalman filter stochastic optimization maximum likelihood Bayesian inference Bayesian update kriging copula statistical models and more Explains the application of advanced probabilistic models encompassing multidisciplinary research Applies probabilistic modeling to emerging areas in engineering Provides an interdisciplinary approach to probabilistic models and their applications thus solving a wide range of practical problems

*Cone Penetration Testing 2022* Guido Gottardi, Laura

Tonni,2022-06-24 This volume contains the proceedings of the 5th International Symposium on Cone Penetration Testing CPT 22 held in Bologna Italy 8 10 June 2022 More than 500 authors academics researchers practitioners and manufacturers contributed to the peer reviewed papers included in this book which includes three keynote lectures four invited lectures and 169 technical papers The contributions provide a full picture of the current knowledge and major trends in CPT research and development with respect to innovations in instrumentation latest advances in data interpretation and emerging fields of CPT application The paper topics encompass three well established topic categories typically addressed in CPT events Equipment and Procedures Data Interpretation Applications Emphasis is placed on the use of statistical approaches and innovative numerical strategies for CPT data interpretation liquefaction studies application of CPT to offshore engineering comparative studies between CPT and other in situ tests Cone Penetration Testing 2022 contains a wealth of information that could be useful for researchers practitioners and all those working in the broad and dynamic field of cone penetration testing

### **Geotechnical Related Development and Implementation of Load and Resistance Factor Design (LRFD)**

**Methods** George G. Goble,1999 This synthesis report will be of interest to geotechnical structural and bridge engineers especially those involved in the development and implementation of the geotechnical aspects of the AASHTO Bridge Code The synthesis documents a review of geotechnical related LRFD specifications and their development worldwide to compare them with the current AASHTO LRFD Bridge Code Design procedures for foundations earth retaining structures and culverts are summarized and compared with the methods specified by the AASHTO code This TRB report provides information designed to assist engineers in implementing the geotechnical features of LRFD methods Information for the synthesis was collected by surveying U S and Canadian transportation agencies and by conducting a literature search using domestic and international sources Interviews were also conducted with selected international experts The limited available experience in the United States and information from international practice are discussed to understand the problems that have arisen in order that solutions may be found Based on the studies reported here suggestions for improving the code are identified

*Public Roads* ,1984 Frontiers in Offshore Geotechnics II Susan Gourvenec,David White,2010-10-04 Frontiers in Offshore Geotechnics II comprises the Proceedings of the Second International Symposium on Frontiers in Offshore Geotechnics ISFOG organised by the Centre for Offshore Foundation Systems COFS and held at the University of Western Australia UWA Perth from 8 10 November 2010 The volume addresses current and emerging challenges

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