



CHINA UNIVERSITY OF PETROLEUM
PRESS

Theory and Practice of Pile Foundations



Wei Dong Guo

Pile Foundations 1st Edition

Amir M. Kaynia



Pile Foundations 1st Edition:

Pile Foundations in Engineering Practice Shamsheer Prakash, Hari D. Sharma, 1991-01-16 This is a concise systematic and complete treatment of the design and construction of pile foundations. Discusses pile behavior under various loadings and types of piles and their installation including consideration of soil parameters. It provides step by step design procedures for piles subject to vertical loading and pullout lateral inclined and eccentric loads or dynamic loads and for piles in permafrost. Also describes load test procedures and their interpretation and buckling of long slender piles with and without supported length. The closing chapter presents case histories of prediction and performance of piles and pile groups. Includes numerous solved problems. **Deep Foundations on Bored and Auger Piles - BAP III** W. Haegeman, W.F. van

Impe, 2020-09-29 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. Analysis of Pile Foundations Subject to Static and Dynamic Loading

Amir M. Kaynia, 2021-08-30 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. **Pile Design and Construction Rules of Thumb**

Ruwan Abey Rajapakse, 2016-02-20 **Pile Design and Construction Rules of Thumb** presents Geotechnical and Civil Engineers a comprehensive coverage of Pile Foundation related theory and practice. Based on the author's experience as a PE the book brings concise theory and extensive calculations examples and case studies that can be easily applied by professional in their day to day challenges. In its first part the book covers the fundamentals of Pile Selection Soil investigation condition pile types and how to choose them. In the second part it addresses the Design of Pile Foundations including different types of soils pile groups pile settlement and pile design in rock. Next the most extensive part covers

Design Strategies and contains chapters on loading analysis load distribution negative skin friction design for expansive soils wave equation analysis batter piles seismic analysis and the use of softwares for design aid The fourth part covers Construction Methods including hammers Inspection cost estimation load tests offshore piling beams and caps In this new and updated edition the author has incorporated new pile designs such as helical composite wind turbine monopiles and spiral coil energy piles All calculations have been updated to most current materials characteristics and designs available in the market Also new chapters on negative skin friction pile driving and pile load testing have been added Practicing Geotechnical and Civil Engineers will find in this book an excellent handbook for frequent consult benefiting from the clear and direct calculations examples and cases Civil Engineering preparing for PE exams may benefit from the extensive coverage of the subject Convenient for day to day consults Numerous design examples for sandy soils clay soils and seismic loadings Now including helical composite wind turbine monopiles and spiral coil energy piles Methodologies and case studies for different pile types Serves as PE exam preparation material

Special Deep Foundation Liebherr-Werk Nenzing GmbH, 2009-11-23 The methods and equipment technology employed in the deep foundation industry have improved rapidly in recent years The ingenuity of civil engineers the results of new scientific research and the ongoing and new developments in machine technology have all led to the acceleration of this process Applying technologies that have become very complex and selecting the suitable machinery and equipment demand ever more specialized knowledge and practical experience It has become very difficult for users and manufacturers of special deep foundation machinery to maintain an overview of the level of technology in the sector Both volumes provide a comprehensive overview of the special deep foundation applications equipment and processes They are intended as an aid to planning and implementation and aim to help practitioners public authorities engineering companies and students to broaden and complete their level of knowledge They are targeted primarily at occupational engineers and applications in the field The individual chapters discuss manufacturing techniques and potential applications along with the associated machine components The specifics of each method and machine technology are examined in detail Since the first volume of the compendium on Special Deep Foundation was published in March 2008 it has become a standard reference book

Helical Piles Howard A. Perko, 2009-10-19 An unbiased comprehensive review of helical pile technology and applications Helical piles have risen from being merely an interesting alternative for special cases to a frequently requested more widely accepted deep foundation adopted into the 2009 International Building Code The first alternative to manufacturer produced manuals Howard Perko's *Helical Piles A Practical Guide to Design and Installation* answers the industry's need for an unbiased and universally applicable text dedicated to the design and installation of helical piles helical piers screw piles and torque anchors Fully compliant with ICC Evaluation Services Inc Acceptance Criteria for Helical Foundation Systems and Devices AC308 this comprehensive reference guides construction professionals to manufactured helical pile systems and technology providing objective insights into the benefits

of helical pile foundations over driven or cast foundation systems and recommending applications where appropriate After introducing the reader to the basic features terminology history and modern applications of helical pile technology chapters discuss Installation and basic geotechnics Bearing and pullout capacity Capacity verification through torque Axial load testing reliability and sizing Expansive soil and lateral load resistance Corrosion and life expectancy Foundation earth retention and underpinning systems Foundation economics Select proprietary systems IBC and NYC Building codes Covering such issues of concern as environmental sustainability Helical Piles provides contractors and engineers as well as students in civil engineering with a practical real world guide to the design and installation of helical piles *Baltic Piling* M. Mets,R. Raudsepp,2013-07-29 Baltic Piling contains the proceedings of the Baltic Piling Days 2012 Tallinn Estonia 3 5 September 2012 The book includes contributions on current issues in pile foundation engineering Interaction of pile and grillage Formation of pile bearing capacity Settlements of piles Pile foundation under historical buildings Thermopiles and Interaction of geogrid and pile Baltic Piling will be of interest to engineers academics and students interested in pile foundation engineering and related disciplines **Pile Foundation Analysis and Design** H. G. Poulos,E. H. Davis,1990-01-01

Recommendations on Piling (EA Pfähle) Geotechnik,2013-12-09 This handbook provides a complete and detailed overview of piling systems and their application The design and construction of piled foundations is based on Eurocode 7 and DIN 1054 edition 2010 as well as the European construction codes DIN EN 1536 Bored piles DIN EN 12699 Displacement piles and DIN EN 14199 Micropiles These recommendations also deal with categorisation of piling systems actions on piles from structural loading negative skin friction and side pressure pile resistances from static and dynamic pile test loading as well as extensive tables with the pile load bearing capacity of nearly all piling systems based on values from practical experience pile groups performance of static and dynamic test loading and integrity tests load bearing behaviour and verifications for piles under cyclical dynamic and impact actions quality assurance for construction An appendix with numerous calculation examples completes the work As part of the approval procedure for offshore wind energy structures the Federal Office for Shipping and Hydrography BSH demands verifications according to the new Chapter 13 Load bearing behaviour and verifications for piles under cyclical dynamical and impact actions of the EA Pfähle the recommendations of the Piling working group 2nd edition which deals with external pile resistance for the foundations of offshore wind energy structures and the types of verifications to be provided under cyclical actions The publication of the EA Pfähle recommendations by the Piling working group of the German Society for Geotechnics DGGT which works with the same members as the piling standards committee NA 00 05 07 is intended to provide assistance for engineers active in the design calculation and construction of piled foundations The recommendations can thus be considered as rules of the technology and as a supplement to the available codes and standards **Pile Design and Construction Practice** Willis H. Thomas,2007-12-06 This international handbook is essential for geotechnical engineers and engineering geologists

responsible for designing and constructing piled foundations It explains general principles and practice and details current types of pile piling equipment and methods It includes calculations of the resistance of piles to compressive loads pile group

Soil Mechanics of Earthworks, Foundations and Highway Engineering Bozzano G Luisa, 2013-10-22 This is the third volume of a handbook which covers the whole field of soil mechanics discussing deterministic and stochastic theories and methods and showing how they can be used in conjunction with one another The first volume discusses soil physics while the second deals with the determination of physical characteristics of the soil Australian Mining wrote of the Handbook a valuable addition to the extensive literature on the topic and will be found to be more useful than most The main objective of the third volume is to present solutions to the problems of engineering practice It deals with the most important theoretical and practical problems of soil mechanics discussing the following in detail stability of earthworks load bearing capacity and settlement of shallow foundations design of pile foundations soil mechanics in road construction improving the physical properties of soils the characteristics of soil dynamics foundations for machines and soil behaviour as affected by earthquakes The book not only presents up to date deterministic methods but also discusses solutions of probability theory in the fields of design and safety The book is divided into six chapters covering the stability of slopes landslides load bearing capacity and settlement of shallow foundations and pile foundations soil mechanics in road construction and the improvement of the physical characteristics of soil with special emphasis on machine foundations and earthquakes giving detailed treatment of each subject For example the first chapter deals not only with the stability of slopes but also discusses the natural and artificial effects slope protection filter design stresses in embankments and the time factor In this way the book gives a clear and comprehensive picture of the special fields of soil mechanics and its subjects It is therefore eminently suitable for postgraduate engineers and engineers working in the fields of geotechnics earthworks foundations road construction engineering geology and statistics and the design of structures

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

Deep Foundations on Bored and Auger Piles - BAP V William F. Van Impe, Peter van Impe, 2008-08-20 Although progressing very well over the last years the design criteria for bored and auger piles are still not fully under control and in acceptable synergism with the real pile foundation behaviour Although there has been a lot of research in the past years worldwide on deep foundation engineering the strong and competitive market has

Screw Piles - Installation and Design in Stiff Clay A.E. Holeyman, 2020-08-12 This volume provides a snapshot of the current thinking and development perspectives on the installation and design of screw piles within the framework of Eurocode 7 The material included provides background on the various aspects of screw piles with particular reference to stiff clays 1 Extensive description of a multi million Euros research program on the loading behaviour of screw piles 2 Geological and geotechnical characterization of Boom clay and overview of screw pile testing over the last 30 years 3 Results of the various load tests recently performed on 30 piles static dynamic static and integrity and outcome of an international prediction event 4 Tentative translation of the current body of knowledge in terms of potential application rules to be soon ascertained at the national level as required by Eurocode 7 The remarkable aspects of the soil displacement piles covered in this book is an exceptionally low variability of geotechnical parameters installation performance and pile capacity calculations

Numerical Models in Geomechanics G.N. Pande, S. Pietruszczak, H.F. Schweiger, 2020-12-17 In this volume a number of developments on a variety of topics have been reported These topics include partially saturated soil instabilities in soil behaviour environmental geomechanics parallel computing and applications to tunnels embankments slopes foundations and anchors

Bases and Foundations of Building Under Reconstruction P.A. Konovalov, 2020-08-13 Translated from the Russian this English edition of the text has been revised and updated It covers such topics as reasons for strengthening bases and foundations of buildings behavioural features and foundations of in service buildings and stabilization of soils

Foundation Vibration Analysis Using Simple Physical Models John P. Wolf, 1994-05-11 This book provides simple physical models to represent the unbounded soil in time and frequency domain analysis They do not supplant the more generally applicable rigorous methods but rather supplement them The physical models used consists of the following representations cones based one dimensional rod theory lumped parameter models with frequency independent springs dashpots and masses and prescribed wave patterns in the horizontal plane The physical models thus offer a strength of materials approach to foundation dynamics

Rapid Load Testing on Piles Paul Holscher, Henk Brassinga, Michael Brown, Peter Middendorp, Maarten Profitlich, Frits A. van Tol, 2011-10-14 A Rapid Load Test RLT developed to determine the initial stiffness and bearing capacity is an economical and practical alternative to a Static Load Test SLT The broad application of RLT however was hampered by uncertainty about the interpretation of the test results This book offers clear guidance on the available analysis techniques and

Design Guideline Basal Reinforced Piled Embankments Suzanne J.M. van Eekelen, Marijn H.A. Brugman, 2016-09-01 A basal

reinforced piled embankment consists of a reinforced embankment on a pile foundation. The reinforcement consists of one or more horizontal layers of geosynthetic reinforcement installed at the base of the embankment. A basal reinforced piled embankment can be used for the construction of a road or a railway when a traditional construction method would require too much construction time, affect vulnerable objects nearby, or give too much residual settlement, making frequent maintenance necessary. This publication is a guideline CUR226 for the design of basal reinforced piled embankments. The guideline covers the following subjects: a survey of the requirements and the basic principles for the structure as a whole; some instructions for the pile foundation and the pile caps; design rules for the embankment with the basal geosynthetic reinforcement; extensive calculation examples; finite element calculations; construction details; and management and maintenance of the piled embankment. The guideline includes many practical tips. The design guideline is based on state of the art Dutch research which was conducted in cooperation with many researchers from different countries. *Interior Design* Arnold Friedmann, John F. Pile, Forrest Wilson, 1970. For the design student.

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