

Lianyang Zhang

# DRILLED SHAFTS IN ROCK

Analysis and Design



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# Drilled Shafts In Rock Analysis And Design

**Lianyang Zhang**



## **Drilled Shafts In Rock Analysis And Design:**

**Drilled Shafts in Rock** Lianyang Zhang, 2004-05-15 Drilled shafts in rock are widely used as foundations of heavy structures such as highway bridges and tall buildings Although much has been learned about the analysis and design of drilled shafts in rock all the major findings are published in the form of reports and articles in technical journals and conference proceedings This book i

**Rock-socketed Shafts for Highway Structure Foundations** John P. Turner, National Cooperative Highway Research Program, 2006 TRB s National Cooperative Highway Research Program NCHRP Synthesis 360 Rock Socketed Shafts for Highway Structure Foundations explores current practices pertaining to each step of the design process along with the limitations identifies emerging and promising technologies examines the principal challenges in advancing the state of the practice and investigates future developments and potential improvements in the use and design of rock socketed shafts

**Analysis of Laterally Loaded Drilled Shafts in Rock** Ke Yang, 2006 Drilled shafts socketed into rock are widely used as foundations for bridges and other important structures Rock socketed drilled shafts are also used to stabilize a landslide The main loads applied on the drilled shafts are axial compressive or uplift loads as well as lateral loads with accompanying moments Although there exist several analysis and design methods especially for rock socketed drilled shafts under lateral loading these methods were developed with assumptions without actual validations with field load test results Some of the methods have been found to provide unsafe designs when compared to recently available field test data Therefore there is a need to develop a more rational design approach for laterally loaded drilled shafts socketed in rock A hyperbolic non linear  $p-y$  criterion for rock is developed in this study that can be used in conjunction with existing computer programs such as COM624P LPILE and FBPIER to predict the deflection moment and shear responses of a shaft under the applied lateral loads Considerations for the effects of joints and discontinuities on the rock mass modulus and strength are included in the  $p-y$  criterion Evaluations based on comparisons between the predicted and measured responses of full scale lateral load tests on fully instrumented drilled shafts have shown the applicability of the proposed  $p-y$  criterion and the associated methods for determining the required input of rock parameters In addition to the development of a hyperbolic  $p-y$  criterion for rock a method for predicting lateral capacities of drilled shafts in rock and or soils is developed for assessing the safety margin of the designed shafts against the design loads A computer program LCPPILE is developed using VC to facilitate computations An elastic solution based on a variational approach is also developed for determining drilled shaft elastic deflection due to applied lateral loads in a two layer soil layer system The computational algorithm was coded in a Mathematical file for easy application Finally Briaud s method for deriving  $p-y$  curves of rock from pressuremeter or dilatometer test results is evaluated using available field test data A modification to the Briaud s method is recommended for applications in rocks

*Drilled Shaft Design and Construction Guidelines Manual: Structural analysis and design for lateral loading*, by Lymon C. Reese and Junius D. Allen Lymon C. Reese, Junius D. Allen, Stephen J. Wright, 1977

**Databases for Data-Centric Geotechnics** Kok-Kwang Phoon, Chong Tang, 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 first volume pertains to site characterization The opening chapter presents an in depth analysis of site data attributes including the establishment of a new taxonomy of site data under 4S site generalizations spatial features sampling characteristics and smart data to provide a novel agenda for data driven site characterization Type 3 machine learning methods disruptive value are possible as sensors become more pervasive and more intelligent A comprehensive overview of site characterization information is also presented with a focus on its availability coverage value to decision making and challenges The remaining 13 chapters cover databases of soil and rock properties and the application of these databases to rock socket behavior rock classification settlement on soft marine clays permeability of fine grained soils and liquefaction among others The databases were compiled from studies undertaken in many countries including Austria Australia Brazil Canada China France Finland Germany India Iran Japan Korea Malaysia Mexico New Zealand Norway Singapore Sweden Thailand the United Kingdom and the United States This volume on site characterization is a companion to the volume on geotechnical structures 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

*Single Piles and Pile Groups Under Lateral Loading* Lymon C. Reese, William Van Impe, Shin-Tower Wang, 2025-09-19 The complexities of designing piles for lateral loads are manifold as there are many forces that are critical to the design of big structures such as bridges offshore and waterfront structures and retaining walls The loads on structures should be supported either horizontally or laterally or in both directions and most structures have in common that they are founded on piles To create solid foundations the pile designer is driven towards finding the critical load on a certain structure either by causing overloaded or by causing too much lateral deflection This third edition of Single Piles and Pile Groups Under Lateral Loading explores and explains design and analysis procedures for laterally loaded piles and pile groups accounting for the nonlinear soil resistance as related to the lateral deflection of the pile It addresses the analysis of piles of varying stiffness installed into soils and rock formations with a variety of characteristics accounting for the axial load at the top of the pile and for the rotational restraint of the pile head The presented method using load transfer functions is currently applied in practice by thousands of engineering offices in the world Moreover various experimental case design examples are given to complement theory The rich list of relevant publications will serve the user for further reading Numerous developments have taken place in the years since the second edition was published Hence new features in this third edition have been added and it includes new chapters on  $p-y$  criteria for crushable soils and rock formations and a chapter on new challenges in analysis and design of monopiles for offshore wind turbine foundations and drilled piers with

large diameters Additional subjects treated include updated group reduction factors on the behavior of pile groups with a large number of piles and the substructure method which is used in current engineering practices for laterally loaded piles under dynamic loading Designed as a textbook for senior undergraduate graduate student courses in pile engineering and foundation engineering and related subject areas this third edition of *Single Piles and Pile Groups Under Lateral Loading* is also aimed at professionals in civil and mining engineering and in applied earth sciences *Analysis and Design of Shallow and Deep Foundations* Lymon C. Reese, William M. Isenhower, Shin-Tower Wang, 2005-11-25 One of a kind coverage on the fundamentals of foundation analysis and design *Analysis and Design of Shallow and Deep Foundations* is a significant new resource to the engineering principles used in the analysis and design of both shallow and deep load bearing foundations for a variety of building and structural types Its unique presentation focuses on new developments in computer aided analysis and soil structure interaction including foundations as deformable bodies Written by the world s leading foundation engineers *Analysis and Design of Shallow and Deep Foundations* covers everything from soil investigations and loading analysis to major types of foundations and construction methods It also features Coverage on computer assisted analytical methods balanced with standard methods such as site visits and the role of engineering geology Methods for computing the capacity and settlement of both shallow and deep foundations Field testing methods and sample case studies including projects where foundations have failed supported with analyses of the failure CD ROM containing demonstration versions of analytical geotechnical software from Ensoft Inc tailored for use by students in the classroom *Foundation Engineering Handbook* Hsai-Yang Fang, 2013-06-29 More than ten years have passed since the first edition was published During that period there have been a substantial number of changes in geotechnical engineering especially in the applications of foundation engineering As the world population increases more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used Such areas include problematic soil regions mining subsidence areas and sanitary landfills To overcome the problems associated with these natural or man made soil deposits new and improved methods of analysis design and implementation are needed in foundation construction As society develops and living standards rise tall buildings transportation facilities and industrial complexes are increasingly being built Because of the heavy design loads and the complicated environments the traditional design concepts construction materials methods and equipment also need improvement Further recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost saving methods for foundation design and construction *Bridge Engineering Handbook* Wai-Fah Chen, Lian Duan, 2023-01-27 First Published in 1999 The *Bridge Engineering Handbook* is a unique comprehensive and state of the art reference work and resource book covering the major areas of bridge engineering with the theme bridge to the 21st century This second volume includes sections covering substructure design and seismic design **Recent Advances and Innovative Developments in**

**Transportation Geotechnics** Buddhima Indraratna,Cholachat Rujikiatkamjorn,2024-10-26 The book will contain the collection of keynote and invited papers of the 5th International Conference on Transportation Geotechnics **From Fundamentals to Applications in Geotechnics** D. Manzanal,A.O. Sfriso,2015-12-11 The work of geotechnical engineers contributes to the creation of safe economic and pleasant spaces to live work and relax all over the world Advances are constantly being made and the expertise of the profession becomes ever more important with the increased pressure on space and resources This book presents the proceedings of the 15th Pan American Conference on Soil Mechanics and Geotechnical Engineering XV PCSMGE held in Buenos Aires Argentina in November 2015 This conference held every four years is an important opportunity for international experts researchers academics professionals and geo engineering companies to meet and exchange ideas and research findings in the areas of soil mechanics rock mechanics and their applications in civil mining and environmental engineering The articles are divided into nine sections transportation geotechnics in situ testing geo engineering for energy and sustainability numerical modeling in geotechnics foundations and ground improvement unsaturated soil behavior embankments dams and tailings excavations and tunnels and geo risks and cover a wide spectrum of issues from fundamentals to applications in geotechnics This book will undoubtedly represent an essential reference for academics researchers and practitioners in the field of soil mechanics and geotechnical engineering In this proceedings approximately 65% of the contributions are in English and 35% of the contributions are in Spanish or Portuguese *Standard Specifications for Highway Bridges* American Association of State Highway and Transportation Officials,2002 *Problem Solving in Foundation Engineering using foundationPro* Mohammad Yamin,2015-09-08 This book is at once a supplement to traditional foundation engineering textbooks and an independent problem solving learning tool The book is written primarily for university students majoring in civil or construction engineering taking foundation analysis and design courses to encourage them to solve design problems Its main aim is to stimulate problem solving capability and foster self directed learning It also explains the use of the foundationPro software available at no cost and includes a set of foundation engineering applications Taking a unique approach Dr Yamin summarizes the general step by step procedure to solve various foundation engineering problems illustrates traditional applications of these steps with longhand solutions and presents the foundation Pro solutions The special structure of the book allows it to be used in undergraduate and graduate foundation design and analysis courses in civil and construction engineering The book stands as valuable resource for students faculty and practicing professional engineers This book also Maximizes reader understanding of the basic principles of foundation engineering shallow foundations on homogeneous soils single piles single drilled shafts and mechanically stabilized earth walls MSE Examines bearing capacity and settlement analyses of shallow foundations considering varying elastic moduli of soil and foundation rigidity piles and drilled shafts Examines internal and external stabilities of mechanically stabilized earth walls with varying horizontal spacing between reinforcing strips with depth Summarizes the step by step

procedure needed to solve foundation engineering problems in an easy and systematic way including all necessary equations and charts      **Geotechnics for Sustainable Infrastructure Development** Phung Duc Long, Nguyen Tien

Dung, 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).      *Analysis and Design of Axially Loaded Drilled Shafts Socketed Into Rock* Lianyang Zhang, 1997

**Model Uncertainties in Foundation Design** Chong Tang, Kok-Kwang Phoon, 2021-03-16 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.      *Risk and Variability in Geotechnical Engineering* Michael A. Hicks, 2007

This book presents cutting edge techniques for characterising, quantifying, and modelling geomaterial variability, in addition to methods for quantifying the influence of this variability on the performance of geotechnical structures. It includes state-of-the-art refereed journal papers by leading international researchers along with written and informal discussions on a selection of key submissions that were presented at a Symposium at the Institution of Civil Engineers on 9th May 2005.      **Engineering Properties of Rocks** Lianyang

Zhang, 2016-09-06 More often than not it is difficult or even impossible to obtain directly the specific rock parameters of interest using in situ methods. The procedures for measuring most rock properties are also time consuming and expensive. Engineering Properties of Rocks, Second Edition, explores the use of typical values and/or empirical correlations of similar

rocks to determine the specific parameters needed The book is based on the author s extensive experience and offers a single source of information for the evaluation of rock properties It systematically describes the classification and characterization of intact rock rock discontinuities and rock masses and presents the various indirect methods for estimating the deformability strength and permeability of these components as well as the in situ rock stresses Presents a single source for the correlations on rock properties Saves time and resources invested on in situ testing procedures Fully updated with current literature Expanded coverage of rock types and geographical locations

**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

*Design of Electrical Transmission Lines* Sriram Kalaga,Prasad Yenumula,2016-12-19 This book covers structural and foundation systems used in high voltage transmission lines conductors insulators hardware and component assembly In most developing countries the term transmission structures usually means lattice steel towers The term actually includes a vast range of structural systems and configurations of various materials such as wood steel concrete and composites This book discusses those systems along with associated topics such as structure functions and configurations load cases for design analysis techniques structure and foundation modeling design deliverables and latest advances in the field In the foundations section theories related to direct embedment drilled shafts spread foundations and anchors are discussed in detail Featuring worked out design problems for students the book is aimed at students practicing engineers researchers and academics It contains beneficial information for those involved in the design and maintenance of transmission line structures and foundations For those in academia it will be an adequate text book design guide for graduate level courses on the topic Engineers and managers at utilities and electrical corporations will find the book a useful reference at work



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## **Table of Contents Drilled Shafts In Rock Analysis And Design**

1. Understanding the eBook Drilled Shafts In Rock Analysis And Design
  - The Rise of Digital Reading Drilled Shafts In Rock Analysis And Design
  - Advantages of eBooks Over Traditional Books
2. Identifying Drilled Shafts In Rock Analysis And Design
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Drilled Shafts In Rock Analysis And Design
  - User-Friendly Interface
4. Exploring eBook Recommendations from Drilled Shafts In Rock Analysis And Design
  - Personalized Recommendations
  - Drilled Shafts In Rock Analysis And Design User Reviews and Ratings
  - Drilled Shafts In Rock Analysis And Design and Bestseller Lists
5. Accessing Drilled Shafts In Rock Analysis And Design Free and Paid eBooks
  - Drilled Shafts In Rock Analysis And Design Public Domain eBooks
  - Drilled Shafts In Rock Analysis And Design eBook Subscription Services
  - Drilled Shafts In Rock Analysis And Design Budget-Friendly Options
6. Navigating Drilled Shafts In Rock Analysis And Design eBook Formats

- ePub, PDF, MOBI, and More
- Drilled Shafts In Rock Analysis And Design Compatibility with Devices
- Drilled Shafts In Rock Analysis And Design Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Drilled Shafts In Rock Analysis And Design
  - Highlighting and Note-Taking Drilled Shafts In Rock Analysis And Design
  - Interactive Elements Drilled Shafts In Rock Analysis And Design
- 8. Staying Engaged with Drilled Shafts In Rock Analysis And Design
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Drilled Shafts In Rock Analysis And Design
- 9. Balancing eBooks and Physical Books Drilled Shafts In Rock Analysis And Design
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Drilled Shafts In Rock Analysis And Design
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Drilled Shafts In Rock Analysis And Design
  - Setting Reading Goals Drilled Shafts In Rock Analysis And Design
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Drilled Shafts In Rock Analysis And Design
  - Fact-Checking eBook Content of Drilled Shafts In Rock Analysis And Design
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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