

## CONTRIBUTION TO LONG TERM PERFORMANCE OF PILED RAFT FOUNDATION IN CLAYEY SOIL.

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### ABSTRACT

Raft and pile groups are the two alternative foundation options to support structures with heavy column loads. Raft is normally designed as rigid in order to withstand high moment and differential settlement, which is a function of intensity of load and relative stiffness of raft and soil. In the case of pile groups most number of piles is provided than required to cater the column load and to practically eliminate the settlement, which makes the foundation to be very expensive.

This study is devoted to carry out numerical analysis by the finite element method of the consolidation settlement of piled rafts over clayey soils and detecting the dissipation of excess pore water pressure and its effect on bearing capacity of piled raft foundations. The ABAQUS computer program is used as a finite element tool and the soil is represented by the modified Drucker-Prager/Cap model. Five different configurations of pile groups are simulated in the finite element analysis.

It was found that the distribution of load between piles becomes more uniform with the increase of raft thickness. For an unpled raft with high stiffness, the pile may share the same amount of load. Increasing the pile diameter leads to decreasing the pore water pressure under the raft, reducing the settlement of the raft and changing the shape of moment distribution in the raft as well as increasing the piles share of load. Spacing between piles affects directly the pile-soil interaction. Pile group with small spacing between piles may tend towards the block behavior, therefore to perform the pile raft concept properly, the spacing between piles need to be wide enough to allow the raft to participate in taking part of the load and using the pile strategically as settlement reducers.

**Keywords:** Piled Raft, Foundation, Finite Elements, Time, Clay, Pile-Soil Stiffness.

# Piled Raft Foundation International Journal Of Civil

**Patrick Vollmar**



## **Piled Raft Foundation International Journal Of Civil:**

*Combined Pile-Raft Foundations* Oliver Reul, Mark Randolph, 2024-12-16 This book presents the fundamental features of the design and performance of combined pile raft foundations CPRFs Whereas in a traditional foundation the loads are carried either by the raft or by the piles the capacity of CPRFs is assessed for the foundation as a whole reducing total and differential settlements economically The five chapters provide an overview of the historical development of piled rafts in practice and research and of the design concepts developed for piled rafts over the last decades Fundamental aspects of their bearing behaviour are presented as well as an overview of the framework of the design process for CPRFs including the safety concept the design approach summarised in the ISSMGE Combined Pile Raft Foundation Guideline ISSMGE TC 212 2013 and the interaction between structural and geotechnical engineering For numerical analysis based on the finite element method guidance is given on creating the model and performing the calculations before providing basic information on the requirements for the site investigation supervision of the construction process and monitoring of the foundation performance Detailed case studies illustrate the design and performance of CPRFs and a design example for the foundation of a multi storey office building founded in non cohesive soil is investigated carrying out 3D finite element analysis to estimate deformations and design parameters for structural engineering Based on the combined experience of the authors obtained in the last decades working in the industry and research the book particularly suits consulting engineers engaged in foundation engineering as well as graduate students and researchers interested in the bearing behaviour of piled rafts and pile groups

**GeoVadis** Ashish Juneja, Anil Joseph, Dasaka S. Murty, 2025-09-16 This book contains a prolific compilation of research on geotechnical engineering presented at the First Geotech Asia International Conference GAIC 2025 The papers reflect dynamic engagement of researchers engineers and professionals from all over Asia to offer insights into ongoing developments and applied problem solving This publication brings together contributions across 19 technical themes including cold region geotechnics deep excavations earthquake engineering foundation systems and underground construction It also delves into artificial intelligence and machine learning applications environmental and transportation geotechnics site characterisation slope stability embankments and dams and ground improvement techniques It is intended for academics practising engineers consultants contractors industry professionals government authorities and students involved in geotechnical research education and design and implementation The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

*Foundation Systems for High-Rise Structures* Rolf Katzenbach, Steffen Leppla, Deepankar Choudhury, 2016-09-19 The book deals with the geotechnical analysis and design of foundation systems for high rise buildings and other complex structures with a distinctive soil structure interaction The basics of the analysis of stability and serviceability necessary soil investigations important technical regulations and quality and safety assurance are

explained and possibilities for optimised foundation systems are given Additionally special aspects of foundation systems such as geothermal activated foundation systems and the reuse of existing foundations are described and illustrated by examples from engineering practice      **Seismic Design and Performance** T.G. Sitharam,Raghuveer Rao

Pallepati,Sreevalsa Kolathayar,2021-03-26 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      **Advances in**

**Civil and Industrial Engineering IV** Guang Fan Li,Chao He Chen,Bi Feng Jiang,Qi Zhong Shen,2014-07-04 Selected peer reviewed papers from the 4th International Conference on Civil Engineering Architecture and Building Materials CEABM 2014 May 24 25 2014 Haikou China      Civil and Environmental Engineering for Resilient, Smart and Sustainable Solutions

Tahar Ayadat,2025-03-25 The book focusses on recent developments in the area of infrastructures that are resilient smart and sustainable It presents an important guideline for policy makers engineers and researchers interested in various infrastructure issues faced by societies Keywords Earthquakes Damage Localization Global Warming Machine Learning Seismic Assessment Reinforced Concrete Fire Behavior Shape Memory Alloys Green Sustainable Concrete Geotechnical Parameters Cement Paste Plasticity Index Urban Environment Underground Pipeline Soil Stabilization Groundwater Monitoring Solar Photovoltaic Systems Climate Change Pollution Monitoring Cost Estimation Model      **Smart Geotechnics for Smart Societies** Askar Zhussupbekov,Assel Sarsembayeva,Victor N. Kaliakin,2023-08-04 Smart Geotechnics for Smart Societies contains the contributions presented at the 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering 17th ARC Astana Kazakhstan 14 18 August 2023 The topics covered include Geomaterials for soil improvement Tunneling and rock engineering Slope embankments and dams Shallow and deep foundations Soil dynamics and geotechnical earthquake engineering Geoenvironmental engineering and frost geotechnics Investigation of foundations of historical structures and monitoring Offshore harbor geotechnics and GeoEnergy Megaprojects and transportation geotechnics Smart Geotechnics for Smart Societies will be of interest to academics and engineers interested or involved in geotechnical engineering      ICE Manual of Geotechnical Engineering Volume 2 Hilary Skinner,D G Toll,Kelvin Higgins,Mike Brown,John

Burland,2023-11-17 ICE Manual of Geotechnical Engineering Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions Written and edited by leading specialists each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field

Deep Foundations for Infrastructure Development in India, Volume 2 Purnanand Savoikar,Sunil S. Basarkar,Jaykumar

Shukla,Boominathan Adimoolam,2025-09-10 This book presents select proceedings of the DFI India 2024 Conference showcasing cutting edge research and advancements in deep foundation technologies and sustainable infrastructure development It covers a wide array of topics including innovative foundation solutions ground improvement techniques deep excavation practices and seismic resilience in geotechnical design Special emphasis is placed on sustainability efficiency and durability in foundation engineering integrating emerging materials advanced construction methodologies and digital technologies such as AI and automation in geotechnical applications The book serves as a valuable reference for researchers engineers and professionals engaged in deep foundations geotechnical engineering and related disciplines *Advances in Civil Engineering and Building Materials* Shuenn-Yih Chang,Suad Khalid Al Bahar,Jingying Zhao,2012-10-31 *Advances in Civil Engineering and Building Materials* presents the state of the art development in Structural Engineering Road Bridge Engineering Geotechnical Engineering Architecture Urban Planning Transportation Engineering Hydraulic Engineering Engineering Management Computational Mechanics Construction Technology Buildi Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions Francesco Silvestri,Nicola Moraci,2019-07-19 *Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions* contains invited keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering Rome Italy 17 20 June 2019 The contributions deal with recent developments and advancements as well as case histories field monitoring experimental characterization physical and analytical modelling and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them The book is divided in the sections below Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefact Projects Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers *Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions* provides a significant up to date collection of recent experiences and developments and aims at engineers geologists and seismologists consultants public and private contractors local national and international authorities and to all those involved in research and practice related to Earthquake Geotechnical Engineering *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

Foundation Design and Construction Michael John Tomlinson, R. Boorman, 2001 This guide combines soil engineering principles design information and construction details It introduces basic theory and then by means of case studies practical worked examples and design charts develops an understanding of foundation design and construction methods

**Physical Modelling in Geotechnics, Volume 2** Andrew McNamara, Sam Divall, Richard Goodey, Neil Taylor, Sarah Stallebrass, Jignasha Panchal, 2018-07-11 Physical Modelling in Geotechnics collects more than 1500 pages of peer reviewed papers written by researchers from over 30 countries and presented at the 9th International Conference on Physical Modelling in Geotechnics 2018 City University of London UK 17 20 July 2018 The ICPMG series has grown such that two volumes of proceedings were required to publish all contributions The books represent a substantial body of work in four years Physical Modelling in Geotechnics contains 230 papers including eight keynote and themed lectures representing the state of the art in physical modelling research in aspects as diverse as fundamental modelling including sensors imaging modelling techniques and scaling onshore and offshore foundations dams and embankments retaining walls and deep excavations ground improvement and environmental engineering tunnels and geohazards including significant contributions in the area of seismic engineering ISSMGE TC104 have identified areas for special attention including education in physical modelling and the promotion of physical modelling to industry With this in mind there is a special themed paper on education focusing on both undergraduate and postgraduate teaching as well as practicing geotechnical engineers Physical modelling has entered a new era with the advent of exciting work on real time interfaces between physical and numerical modelling and the growth of facilities and expertise that enable development of so called megafuges of 1000gtonne capacity or more capable of modelling the largest and most complex of geotechnical challenges Physical Modelling in Geotechnics will be of interest to professionals engineers and academics interested or involved in geotechnics geotechnical engineering and related areas The 9th International Conference on Physical Modelling in Geotechnics was organised by the Multi Scale Geotechnical Engineering Research Centre at City University of London under the auspices of Technical Committee 104 of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE City University of London are pleased to host the prestigious international conference for the first time having initiated and hosted the first regional conference Eurofuge ten years ago in 2008 Quadrennial regional conferences in both

Europe and Asia are now well established events giving doctoral researchers in particular the opportunity to attend an international conference in this rapidly evolving specialist area This is volume 2 of a 2 volume set *Proceedings of the 5th Indian Young Geotechnical Engineers Conference (5IYGEC)* D L Shah,L S Thakur,J C Shukla,N H Joshi,2015-03-14 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 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 Recent Developments In Civil Engineering Vijay Kumar, Anupam Rawat, R. P. Tiwari, A book on Recent Developments in Civil engineering would likely focus on the latest advancements and innovations in the field of Civil Engineering The book would cover a wide range of topics related to Civil engineering such as sustainable infrastructure design construction materials and construction techniques transportation systems and infrastructure geotechnical engineering water resources and management environmental engineering and sustainability of structures and its design

**Geotechnical Engineering and Sustainable Construction** Mahdi O. Karkush,Deepankar Choudhury,2022-03-19 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

**Sustainable Management of Land, Water and Pollution of Built-up Area** Krishna Kumar Singh,Chandra Shekhar

Prasad Ojha,2024-05-20 This edited book is a comprehensive and forward thinking exploration of the challenges and opportunities in building environmentally resilient and thriving cities In a rapidly urbanizing world the management of land water and pollution within built up areas is a critical issue and this book presents a wealth of knowledge to address it It showcases a range of case studies and real world applications that illustrate successful strategies and innovative solutions for urban sustainability These practical examples offer valuable insights for urban planners policymakers and environmental practitioners The book delves into cutting edge research and visionary solutions It goes beyond conventional approaches to explore emerging technologies and futuristic concepts positioning itself at the forefront of urban sustainability Readers will discover innovative ideas that can shape the future of urban development making cities more livable sustainable and resilient

**Tall Building Foundation Design** Harry G. Poulos,2017-07-20 This book provides a comprehensive guide to the design of foundations for tall buildings After a general review of the characteristics of tall buildings various foundation options are discussed followed by the general principles of foundation design as applied to tall buildings Considerable attention is paid to the methods of assessment of the geotechnical design parameters as this is a critical component of the design process A detailed treatment is then given to foundation design for various conditions including ultimate stability serviceability ground movements dynamic loadings and seismic loadings Basement wall design is also addressed The last part of the book deals with pile load testing and foundation performance measurement and finally the description of a number of case histories A feature of the book is the emphasis it places on the various stages of foundation design preliminary detailed and final and the presentation of a number of relevant methods of design associated with each stage



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