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[International Journal of Technical Innovation in Modern Engineering & Science \(IJTIMES\)](#) Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585 Volume 4, Issue 11, November-2018 IJTIMES-2018@All rights reserved 89 [PILED- RAFT FOUNDATION FOR HIGH RISE INDUSTRIAL STRUCTURE](#) K.Bhaskarreddy1, Dr.c.sashidhar2, B.Sreenivas3

### PILED- RAFT FOUNDATION FOR HIGH RISE INDUSTRIAL STRUCTURE

Abstract. A piled raft foundation comprises both piles and a pile cap that itself transmits load directly to the ground. The aim of such a foundation is to reduce the number of piles compared with a more conventional piled foundation where the bearing effect of the pile cap, or raft, is ignored. This paper describes a 'hybrid' approach for the analysis of piled raft foundations, based on a load transfer treatment of individual piles, together with elastic interaction between different ...

### An approximate analysis procedure for piled raft foundations

Principal findings from the present study are: 1) The stiffness and the resistance of the single pile in piled raft foundations are different from those observed in the isolated single piles of the same size, due to the difference in the confining stress condition around the piles; 2) Piles play important roles in increasing horizontal ultimate resistance of piled raft foundations; 3) The initial horizontal stiffness of a piled raft is not always higher than that of a raft (alone) as the ...

### Performance of piled raft foundations subjected to static ...

As a solution to the settlement problem of high-rise buildings, a number of piles are used and a new type of foundation - called a piled raft foundation - is coming up in a big way. In some designs, approach piles are used for reducing the settlement and a load is carried by raft only.

### Simplified Design Method for Piled Raft Foundations ...

Abstract. A new simplified approach based on the pseudostatic method of analysis is proposed to investigate the response of a combined pile-raft foundation (CPRF) and a group pile considering the complex interaction. In this method, the raft is considered as a plate supported by group of piles and soil, where piles are modeled as Euler beam elements resting on elastic Winkler foundation and the raft is divided into square grids attached with horizontal springs.

### Pseudostatic Approach to Analyze Combined Pile-Raft Foundation

Abstract. Load sharing of piled raft foundations is known as an economical design for deep foundations. Nevertheless, research in this area has been lagging because of the complexity of the problem and lack of field data. Numerical modeling can be used to provide valuable data with a high level of success. A three-dimensional finite-element model of a piled raft foundation was developed to simulate the case of a piled raft foundation.

### 3D Numerical Model for Piled Raft Foundation ...

[International Journal for Numerical](#) . ... The piled-raft foundation systems have started to be a very popular design method that is commonly used for especially high-rise buildings. In this ...

### (PDF) ISSMGE Combined Pile-Raft Foundation Guideline

Pile raft foundation behavior is evaluated with many researches and the effect of pile length; pile distance, pile arrangement and cap thickness are determined under vertical or horizontal static and dynamic loading. In the present paper the influence of pile length configurations on behavior of multi-storied are evaluated under vertical loading.

### INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH ...

If there are one or more ineffective piles, the raft can allow some degree of load redistribution to other piles, reducing the

influence of the pile's weakness on the overall performance of the foundation. In an Unconnected Piled Raft Foundation (UCPRF), the piles are not directly connected to the raft, but are separated from it by a structural fill 'cushion' (such as a compacted sand-gravel mixture or compacted soil) which redistributes load between the raft and piles. This can be a ...

Piled raft foundation - Designing Buildings Wiki

One of the Technical Committees of the International Society for Soil Mechanics and Foundation Engineering (ISSMFE) focussed its efforts in the period 1994-7 towards piled raft foundations, collected considerable information on case histories and methods of analysis and design, and produced comprehensive reports on these activities (O'Neill et al., 1996; van Impe & Lungu, 1996).

Piled raft foundations: design and applications

Abstract Disconnected piled raft (DPR) foundations have been widely adopted as an effective foundation system where the piles are separated from the raft by a granular layer, which can limit the shear forces and moments transmitted between the raft and the piles.

Horizontal Loading Tests on Disconnected Piled Rafts and a ...

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Fig 1: Concept of piled raft foundation a) piles, b) raft, c) piled raft. International Journal of Advanced Engineering Technology E-ISSN 0976-3945 IJAET/Vol.II/ Issue IV/October-December, 2011/191-195. c) When the clay layer has intermediate strength, alternative (b) may not be feasible, as the bearing capacity may not be adequate, or settlements may be excessive, which may also cause distresses to adjacent structures.

BEHAVIOURAL STUDY OF PILED RAFT FOUNDATION IN LAYERED SOIL ...

Jun Yang. The original paper investigated the performance of piled raft foundations under vertical loading by three-dimensional (3D) FEM numerical simulation. The topic is interesting, and the findings on the effects of the key parameters governing the performance of this type of foundation are instructive. However, there are two serious issues that should be addressed and corrected, as discussed herein.

Discussion of "3D Numerical Model for Piled Raft ...

"An experimental investigation on behavior of piled raft foundation", International Journal of Geomatics and Geosciences, 5(2), 300. Phoon, K.K. and Kulhawy, F.H. (1999). "Characterization of geotechnical variability", Canadian Geotechnical Journal, 36(4), 612-624.

Behavior of Piled Raft Foundation on Heterogeneous Clay ...

The piled raft foundations are designed to support the structure against static and dynamic loads to satisfy the requirements for bearing capacity and maximum settlement. The raft is 78 m long, 53 m wide, and 1.8 m thick and made of reinforced concrete.

Influence of Variable Rigidity Design of Piled Raft ...

The foundation area is about 2900 [m<sup>2</sup>] founded on Frankfurt clay at a depth of 14.5 [m] under the ground surface. Raft thickness varies from 4.65 [m] at the middle to 3 [m] at the edge. A total of 40 bored piles with equal diameter and length, each 30 [m] length and 1.3 [m] in diameter.

Piled Raft Foundation - ELPLA

Small J. C., Zhang H. H., (2002), "Behavior of Piled Raft Foundations Under Lateral and Vertical Loading", The International Journal of Geomechanics, Vol. 2, 29 - 45. Yue Mao-guang., Wang Ya-yong., (2008), "Soil-Structure Interaction of High-rise Building Resting on Soft Soil", Electronic Journal of Geotechnical Engineering.

Piled Raft Foundation for Seismic Performance of Tall ...

Over the past two decades, a number of researchers studied different aspects of the unconnected piled raft foundation (UPRF) system. In this system, a structural fill cushion is inserted between the raft and the concrete piles (PC) where the cushion transfers the loads from the superstructure to the piles. They showed that UPRF could increase the load-bearing share of the raft relative to that of the concrete piles, which leads to a favourable economic impact.

Developments in Geographic Information Technology have raised the expectations of users. A static map is no longer enough; there is now demand for a dynamic representation. Time is of great importance when operating on real world geographical phenomena, especially when these are dynamic. Researchers in the field of Temporal Geographical Information Systems (TGIS) have been developing methods of incorporating time into geographical information systems. Spatio-temporal analysis embodies spatial modelling, spatio-temporal modelling and spatial reasoning and data mining. Advances in Spatio-Temporal Analysis contributes to the field of spatio-temporal analysis, presenting innovative ideas and examples that reflect current progress and achievements.

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.

An overview of recent developments in constitutive modelling, numerical implementation issues, and coupled and dynamic analysis. There is a special section dedicated to the numerical modelling of ground improvement techniques, with applications of numerical methods for solving practical boundary value problems, such as deep excavations, tunnels, shallow and deep foundations, embankments and slopes. These proceedings not only contain the latest scientific research, but also give valuable insight into the applications of numerical methods in solving practical engineering problems, thus narrowing the gap between advanced academic research and practical application.

The construction materials industry is a major user of the world's resources. While enormous progress has been made towards sustainability, the scope and opportunities for improvements are significant. To further the effort for sustainable development, a conference on Sustainable Construction Materials and Technologies was held at Coventry University, Coventry, U.K., from June 11th - 13th, 2007, to highlight case studies and research on new and innovative ways of achieving sustainability of construction materials and technologies. This book presents selected, important contributions made at the conference. Over 190 papers from over 45 countries were accepted for presentation at the conference, of which approximately 100 selected papers are published in this book. The rest of the papers are published in two supplementary books. Topics covered in this book include: sustainable alternatives to natural sand, stone, and Portland cement in concrete; sustainable use of recyclable resources such as fly ash, ground municipal waste slag, pozzolan, rice-husk ash, silica fume, gypsum plasterboard (drywall), and lime in construction; sustainable mortar, concrete, bricks, blocks, and backfill; the economics and environmental impact of sustainable materials and structures; use of construction and demolition wastes, and organic materials (straw bale, hemp, etc.) in construction; sustainable use of soil, timber, and wood products; and related sustainable construction and rehabilitation technologies.

An excellent source of reference on the current practice of physical modelling in geotechnics and environmental engineering. Volume One concentrates on physical modelling facilities and experimental techniques, soil characterisation, slopes, dams, liquefaction, ground improvement and reinforcement, offshore foundations and anchors, and pipelines. V

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.

Futures in Mechanics of Structures and Materials is a collection of peer-reviewed papers presented at the 20th Australasian Conference on the Mechanics of Structures and Materials (ACMSM20, University of Southern Queensland, Toowoomba, Queensland, Australia, 2 - 5 December 2008) by academics, researchers and practicing engineers mainly from Austral

Effective measurement of the composition and properties of petroleum is essential for its exploration, production, and refining; however, new technologies and methodologies are not adequately documented in much of the current literature. Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components, classes of compounds, properties, and features of petroleum and its fractions. Recognized experts explore a host of topics, including: A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil-in-water measurements and monitoring The chemical and physical properties of heavy oils, their fractions, and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance (NMR) applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream, midstream, and downstream operations Due to the renaissance of gas and oil production in North America, interest has grown in analytical methods for a wide range of applications. The understanding provided in this text is designed to help chemists, geologists, and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations, providing insight into optimum development and extraction schemes.

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

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 ha

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