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## **International Journal of High-Rise Buildings**

In recent years, there have been an increasing number of structures using piled rafts as the foundation to reduce the overall settlement. For cases, where piled raft is subjected to a uniform loading, the use of identical piles can improve the

**design of the piled-raft foundation commonly ignores the**

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Abstract—.The Piled raft foundation has gained popularity in the field of construction. Construction of raft at shallow ... “Fem Modeling for Piled Raft Foundation in Sand”, International Journal of Civil Engineering & Technology ...

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IJSTE - International Journal of Science Technology & Engineering  
| Volume 3 | Issue 02 | August 2016 ISSN (online): 2349-784X 1G  
Model Study on the behavior of Piled Raft Foundation Aleena  
Tom Sindhu A R M. Tech. Student Assistant Professor  
Department of Civil Engineering Department of Civil Engineering  
Saintgits College of Engineering, Kottayam, Kerala, India  
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## **An experimental study of eccentrically loaded piled raft**

...

International Journal of Geomechanics / Volume 16 Issue 5 - October 2016. Effect of Earthquake on Combined Pile-Raft Foundation. Full Text HTML; Details; Figures; References; ...  
Effect of Superstructure on the Dynamic Response of Nonconnected Piled Raft Foundation Using Centrifuge Modeling. International Journal of Geomechanics July 2018 .

## **An approximate analysis procedure for piled raft foundations**

An Approximate Analysis Procedure for Piled Raft Foundations, International Journal for Numerical and Analytical Methods in Geomechanics, 17(12), pp. 849-869, 1993. Basile, F., Non-linear Analysis of Pile Groups, Proceedings of the Institution of Civil Engineers-Geotechnical Engineering, 137(2), pp. 105, 1999.

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

A three-dimensional finite-element model of a piled raft foundation was developed to simulate the case of a piled raft foundation. The model accounts for pile-to-pile, raft-to-pile, pile-to-soil, and raft-to-soil interactions.

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

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.

## **G Model Study on the behavior of Piled Raft Foundation**

In the recent years, non-connected piled raft foundation has

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been considered as an economical and practical deep foundation in the situation that high shear and concentrated loads may occur at the connection of the raft and pile head. This paper was presented an experimental study of a square foundation on the effects of parameters such as  $S/D$ ,  $L/D$  and etc. in two cases of connected or non ...

### **Issues on Design of Piled Raft Foundation**

foundation i.e., piled raft foundation, as it has been proved to be cost effective [48] and also in settlement reduction. Many of the foundations performs poor, which may be in the form of excessive settlement, differential settlement on soft soil [12, 41, 57].Despite of poor performance, piled raft foundation proves to be

### **Experimental Study of a Square Foundation with Connected ...**

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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.

### **APPROXIMATE ANALYSIS OF PILED RAFT - IJSER**

The behavior of piled raft resting on sand is assessed in terms of its bearing capacity and settlement. This paper presents an experimental study of the effectiveness of using piles on the behavior of an eccentrically loaded raft. ... Raft foundation, Piled raft foundation, ... International Journal of Geotechnical Engineering. Volume 10, 2016 ...

### **Effect of Earthquake on Combined Pile-Raft Foundation ...**

piled-raft foundations by means of a multiphase model accounting for soil-pile interactions. Computers and Geotechnics

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46, 26-38. Clancy, P., and M. F. Randolph (1993). An approximate analysis procedure for piled raft foundations. International journal for numerical methods in geomechanics 17, 849-869.

### **(PDF) Analysis of Piled Raft Foundation using ANSYS ...**

Abstract: Piled-raft foundations for important high-rise buildings have proved to be a valuable alternative to conventional pile foundations or mat foundations. The concept of using piled raft foundation is that the combined foundation is able to support the applied axial loading with an appropriate

### **An approximate analysis procedure for piled raft foundations**

The main advantages of piled raft foundation are: 1. Reduction of settlements, differential settlements and tilts. 2. An increase of overall stability of foundation. 3. Reduces number of piles as compared to conventional piled foundation where bearing effect



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of raft is ignored which result in more number of piles. 4.

## **(PDF) Seismic response of non-connected piled raft foundations**

focused on soil pressures under the base slab of a piled raft foundation. Total seven cases with different pile numbers and raft-soil contact conditions were investigated. The design criteria of a foundation, especially settlement requirement were satisfied ... International Journal of High-Rise Buildings piles is 134. The ground conditions ...

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

Piled raft foundations: Design and applications. ... The majority of piled raft foundations have been designed ignoring any contribution from the raft or pile cap, although it is well known that ...

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## **Piled Raft Foundation International Journal**

Piled raft foundation is befitting foundation system for the high-rise buildings. The foundation system should resist a combination of loads such as vertical, lateral and overturning moment.

### **(PDF) Piled raft foundations: Design and applications**

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.

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International Journal of Geotechnical. Engineering. To link to this article: <https://doi.org/10.1080/19386362.2019.1565392>.