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Piled Raft Foundation International Journal
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
The concept of composite piled raft foundation incorporates piles of different lengths and stiffness, where short columns of flexible materials improve the shallow soft soil and longer columns of r... 3D numerical analysis of piled raft foundation in stone column improved soft soil: International Journal of Geotechnical Engineering: Vol 13, No 5.

3D numerical analysis of piled raft foundation in stone ...
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.

An approximate analysis procedure for piled raft foundations
INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 2, ISSUE 6, JUNE 2013 ISSN 2277-8616 72 IJSTR©2013 www.ijstr.org Effect Of Piled Raft Design On High-Rise Building Considering Soil Structure Interaction R. R. Chaudhari, Dr K. N. Kadam

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

(PDF) Simplified Design Method for Piled Raft Foundations
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Piled raft foundation is a constructive system characterized by the joint action of the following elements: rafts and piles, which purpose is to transfer loads from the superstructure onto the ground where the foundation is to be laid.

Spreadsheets for the analysis of piled raft foundations
The decision was to increase the foundation load carrying capacity by introducing a piled-raft system through construction of a number of bored piles 400 mm in diameter and 15.0 m long beneath the ...

Bearing Capacity of Pile Group and Piled Raft Foundations ...
Combine Piled Raft Foundation(CPRF) is an emerging type of new foundation techniques in High rise buildings and skyscraper which raft as a shallow foundation and pile as deep foundation works sharing the total load and reduce settlement and bending moment. the modern approach of design philosophy is included in post graduation level with soil structure interaction of CPRF and this will use to understand the basic concept regarding it.

Combine piled raft foundation (cprf)_Er.Karan Chauhan
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 ...
The combined pile–raft foundation (CPRF) has been widely recognized as economic and rational foundation for high-rise buildings when subjected to vertical loading because of its effectiveness in load sharing by both raft and pile components. This results in smaller total and differential settlements with a reduced number of piles as compared with group piles.

Effect of Earthquake on Combined Pile–Raft Foundation ...
Rigid foundations are a good choice for important buildings to resist static loads and seismic loads, but the rigid foundations are always limited. Piled raft foundations (PRFs) have been widely adopted in the design of high-rise buildings and important buildings in recent years due to their efficiency in controlling the total settlement and differential settlement and their high bearing capacity . However, the differential settlement of the PRF designed by the conventional method for ...

Optimization Method for Irregular Piled Raft Foundation on ...
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 ...
4. Results and discussion. The maximum settlement of unconnected pile raft foundation, differential settlement of the raft foundation, axial load through the pile length and pile load ratio (α PR) is the most important results that have been concentrating in this research.The load share between the pile and the raft is a parameter that is used to design of the piled raft foundation.

Numerical analysis of unconnected piled raft with cushion ...
Uba Uge, B. and Guo, Y. (2020) Deep Foundation Pit Excavations Adjacent to Disconnected Piled Rafts: A Review on Risk Control Practice. Open Journal of Civil Engineering, 10, 270-300. doi: 10.4236/ojce.2020.103023.

Deep Foundation Pit Excavations Adjacent to Disconnected ...
In order to study the influence of pile spacing on the seismic response of piled raft in soft clay, a series of shaking table tests were conducted by using a geotechnical centrifuge. The dynamic behavior of acceleration, displacement and internal forces was examined. The test results indicate that the seismic acceleration responses of models are generally greater than the surrounding soil ...

Influence of pile spacing on seismic response of piled ...
Mahrag, D.K.: Three dimensional nonlinear finite element analysis to study the effect of raft and pile stiffness on the load-settlement behavior of piled raft foundations. Electronic Journal of Geotechnical Engineering, vol. 9, 2004, Bundle A, Paper 0349 (2004)

A New Approach for Estimating Thickness of Mat Foundations ...
The piled raft foundation for the structure has been analyzed and corresponding settlement, differential settlement, maximum soil pressure and point reaction on pile are observed. Fig 2 Layout of piled raft foundation. Fig 3 Displacement of piled raft foundation (in mm). IJSER Fig 4 Soil pressure distribution in piled Raft foundation.

APPROXIMATE ANALYSIS OF PILED RAFT - IJSER
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.