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-PART 1-

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caisson (pile)  
foundations

Use of Raft Foundation  
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~~RAFT  
VS PILE~~

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Zygmunt Meyer:

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November-2018  
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PILED- RAFT  
FOUNDATION FOR  
HIGH RISE  
INDUSTRIAL  
STRUCTURE

K.Bhaskarreddy1,

Dr.c.sashidhar2,

B.Sreenivas3

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RAFT FOUNDATION  
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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

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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 ...

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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

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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

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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.

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Raft Foundation  
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.

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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

*Page 21/43*

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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

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Raft Foundation  
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-

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raft foundation systems have started to be a very popular design method that is commonly used for especially high-rise buildings. In this ...

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Combined Pile-Raft  
Foundation Guideline  
Pile raft foundation  
behavior is evaluated  
with many researches  
and the effect of pile

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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.

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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

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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 ...

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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

informa- tion on case

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rafts 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

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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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rafted foundation

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Piled Raft Foundation

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Fig 1: Concept of piled raft foundation a) piles, b) raft, c) piled raft.

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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

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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.

*Page 34/43*

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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

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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

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Raft Foundation  
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.

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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

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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

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“Raft Foundation 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

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# Download Ebook 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

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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.

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