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

Analysis of piled raft
foundation *Mechanics of
Barrette and Combined Pile
Raft Foundation Systems |
Deepankar Choudhry | IACMAG*
Piled raft foundation in
Abaqus ~~Bengt H Fellenius÷
Piled Raft Foundation
Response for a Container
Port. Pile Raft Foundation
by Prof. Noppadol Phien Wej
[GTS NX] Pile Raft
Foundation Analysis with~~

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Superstructure and

Substructure - midas GTS NX

Webinar Pile Raft Foundation

Analysis with Superstructure

and Substructure - midas GTS

NX CSI SAFE PILE RAFT

FOUNDATION DESIGN IN SAFE

PART-3/3 Pile Raft

Foundation in STAAD

Foundation GTS NX - Tutorial

Excavation and raft

foundation in 3D *CSI SAFE*

PILE RAFT FOUNDATION DESIGN

IN SAFE PART-1/3 PILED RAFT

FOUNDATION - PART 1 -

INTRODUCTION \u0026

APPLICATION Raft foundation

or Mat foundation details

design | types of

foundations | Green House

Construction Raft Foundation

Explained

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Bored Piling Method
*BASEMENT
EXCAVATION - BORED PILE*

Raft foundation construction
according to drawing plan

What is Raft Foundation?

purpose of Raft Foundation -

Design of Raft Foundation

Raft Foundation Construction

Method ~~Construction of Mat
Footing~~

Floating foundations vs.
caisson (pile) foundations

Use of Raft Foundation

Advantage and Disadvantages

~~RAFT VS PILE FOUNDATION , CT~~

~~II VIDEO ASSIGNMENT~~

Zygmunt Meyer: Analysis of
Combined Pile Raft

Foundation based on a static
load test **Residential**

**Building Design : Pile Raft
foundation | Pile Mat**

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Foundation Design ????????

(15) : *Plaxis 3D -*

Piled-Raft foundation as

Mohr-Coulomb model (MC)

COMBINED PILE RAFT

FOUNDATION GEOTECHNICAL

CALCULATION (1) - Rolf

Katzenbach**ADVANTAGES OF**

PILED RAFT FOUNDATION - PART

2 *midas Software Solutions*

for Geotechnical Pile raft

2015-05-28 Midas GTS NX

Introduction: Pile Raft

Foundation Analysis Piled

Raft Foundation

International Journal

International Journal of

Technical Innovation in

Modern Engineering & Science

(IJTIMES) Impact Factor:

5.22 (SJIF-2017), e-ISSN:

2455-2585 Volume 4, Issue

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11, November-2018

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FOUNDATION FOR HIGH RISE

INDUSTRIAL STRUCTURE

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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

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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

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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

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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

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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-

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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

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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

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Journal Of Civil 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

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(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

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limit the shear forces and moments transmitted between the raft and the piles.

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

piled raft foundation
international journal of
civil is also recommended to
gain access to in your
computer device. ROMANCE
ACTION & ADVENTURE MYSTERY &
THRILLER BIOGRAPHIES &
HISTORY CHILDREN'S YOUNG
ADULT FANTASY HISTORICAL
FICTION HORROR LITERARY
FICTION NON-FICTION SCIENCE

Page 5/6

**Piled Raft Foundation
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Page 14/20

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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 ...**

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Journal Of Civil 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",

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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.

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Influence of Variable Rigidity Design of Piled Raft ...

The foundation area is about 2900 [m²] 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

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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

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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.

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