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### **Single Piles And Pile Groups**

The pile group Generally, the single pile is not used beneath a column or a wall, because it is extremely hard to drive the verical pile a to place the foundation

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exactly over its centerline. In the case of eccentric loading, the connection between the pile and the column may break or the pile may fail structurally because of bending stresses.

### **Pile group | Group capacity of piles in cohesionless soil ...**

This capacity is also called as bearing

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capacity of piles. The piles installed can be a single pile or group piles. Hence the load calculation for a single pile and group pile will be different. This is done for given load condition or for the size of foundation.

## **Pile Load Capacity Calculation - Single Pile and Group Pile**



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The complexities of designing piles for lateral loads are manifold as there are many forces that are critical to the design of big structures such as bridges, offshore and waterfront structures and retaining walls. The loads on structures should be supported either horizontally or laterally or in both directions and most structures have in common that

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they are founded on piles. To create  
solid ...

## **Single Piles and Pile Groups Under Lateral Loading - 2nd ...**

Techniques for  
designIntroductionOccurrence of  
laterally loaded pilesNature of the soil  
responseResponse of a pile to kinds of

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loading Models for use in analyses of a  
single pile Models for groups of piles  
under lateral loading Status of current  
state-of-the-art Derivation of equations  
and methods of  
solution Introduction Derivation of the  
differential equation Solution for  $E_p y$   
 $= k_p y^x$  Validity of ...

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## **Single Piles and Pile Groups Under Lateral Loading ...**

Zhang et al. used single pile analyses to assess group reliability by adopting a redundancy factor. Paikowsky suggested that the target reliability for pile group can be reduced to 2.0-2.5 compared to

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3.0 for single piles. Pile groups may be able to support the design load when one or more piles are defective (e.g., ).

### **Updating reliability of single piles and pile groups by ...**

In this case, the efficiency of the pile group is equal to 1 or 100%. For piles in sand, the efficiency of the pile group is

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more than 100% when the piles are at a close spacing and become equal to 100% when the pile spacing is about 5-6 times the diameter. Pile group efficiency of 1 is assumed for pile groups in sand.

### **Pile Group: Efficiency and Settlement | Pile Foundations ...**

Single piles and pile groups containing

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two, four, and six piles embedded in sandy soil were tested, and the results are presented and discussed in this paper. The influences of pile embedment depth, relative density of soil, and arrangement of piles in a group on the uplift capacity of piles are investigated.

## **Uplift capacity of single piles and**



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The deflection of a pile group under a lateral load is typically 2 to 3 times larger than the deflection of a single pile loaded to the same intensity. Many researchers, starting early on (e.g. Holloway et al. (1981) and Brown et al. (1988)) reported that piles in trailing rows of pile groups have significantly

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less resistance to a lateral load than  
piles in the lead row, and therefore  
exhibit greater deflections.

### **Laterally Loaded Piles | Group Piles | FindAPile.com**

If piles are spaced sufficient distance  
apart, then the capacity of pile group is  
the sum of the individual capacities of

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piles. However, if the spacing between piles is too close, the zones of stress around the pile will overlap and the ultimate load of the group is less than the sum of the individual pile capacities especially in the case of friction piles, where the efficiency of pile group ...

### **Calculate Capacity of Pile Group and**

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Kinematic seismic response of single  
piles and pile groups

## **Kinematic seismic response of single piles and pile groups**

Chapters 5 and 6 are the heart of the  
book. Both present detailed analyses  
methods for virtually all practical

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problems of laterally loaded foundations. Chapter 5 describes the analysis of pile groups subjected to inclined and eccentric loads, while Chapter 6 presents the analysis of single piles and groups subjected to active and passive loading.

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The key for calculating the settlement of pile group by a single pile is the analysis of the interactions among piles.

Moreover, the consideration of the mutual reinforcing effects plays a very important role in analyzing the interactions between piles. Liang et al. [ 12 ], Yan and Zhang [ 13

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**New Method for Calculating the  
Settlement of Single Pile ...**

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## **Single Piles and Pile Groups Under Lateral Loading - Lymon ...**

groups in subsiding soil, may need to have the perimeter piles installed longer than the interior piles. Key Words. Single piles, piled foundations, drag force, settlement, wide pile groups.

INTRODUCTION Conventionally, pile

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design involves establishing the allowable load (i.e., maximum working load) for the piles by applying a factor of safety ...

## **DESIGN OF SINGLE PILES, SMALL PILE GROUPS, AND WIDE PILED ...**

In practice, piles are more commonly installed in groups, and the behavior of

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pile groups is more complex than that of single piles, especially under lateral loads (Reese and Van Impe, 2001).

## **Single Piles and Pile Groups Under Lateral Loading ...**

5.2 Approach to analysis of groups of piles 126  
5.3 Review of theories for the response of groups of piles to inclined

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for a two-dimensional group of piles 132

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