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Pile Foundation - 06
Load Distribution in
Pile Group Analysis of
Single Piles (Oasys
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Piles, Group
Settlement Ratio and
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Group Group Action
Of Pile And Group
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45 : Pile foundation
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Deflection of Single
Piles Pile Load

Capacity -
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Analysis of pile
groups Settlement Of
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Group Settlement

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Ratio | _____ Pile

Foundation In Hindi

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Cohesive and

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Group Effect For Axial

Load Capacity for

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Settlement of Piles in

group | Pile

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Lecture 42 : Pile

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Foundations, Driven
Piles, Settlement and
Group Effects Pile
Foundation - 03 Shaft
Resistance of Pile
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~~Loading: Reese ...~~

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

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either horizontally or laterally or in both directions and most structures have in common that they are founded on piles. To create solid ...

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

Single Piles and Pile Groups Under Lateral Loading. London: CRC

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Press, <https://doi.org/10.1201/b17499>.

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.

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~~Single Piles and Pile
Groups Under Lateral
Loading ...~~

Techniques for design
Introduction Occurren
ce of laterally loaded
piles Nature of the soil
response Response of
a pile to kinds of
loading Models for use
in analyses of a single
pile Models for groups
of piles under lateral
loading Status of

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current state-of-the-art Derivation of equations and methods of solution Inroduction Derivation of the differential equation Solution for $E_p y = k_p y x$ Validity of ...
Van Impe

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~~[PDF] Single Piles and
Pile Groups Under
Lateral Loading ...~~

The pile group

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Generally, the single pile is not used beneath a column or a wall, because it is extremely hard to drive the vertical pile a to place the foundation exactly over its centerline. In the case of eccentric loading, the connection between the pile and the column may break or

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the pile may fail structurally because of bending stresses.

~~Pile group | Group capacity of piles in cohesionless soil ...~~
Zhang et al. used single pile analyses to assess group reliability by adopting a redundancy factor. Paikowsky suggested that the target

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reliability for pile group can be reduced to 2.0–2.5 compared to 3.0 for single piles. Pile groups may be able to support the design load when one or more piles are defective (e.g.,). If the reliability of the pile group with defective piles can be quantified, it may be possible to use the

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defective pile rather than install a replacement pile and increase ...

~~Updating reliability of single piles and pile groups by ...~~

The piles installed can be a single pile or group piles. Hence the load calculation for a single pile and group pile will be

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different. This is done for given load condition or for the size of foundation.

Here the load carrying capacity calculation for both single piles and group piles.

William F 2010
~~Pile Load Capacity
Calculation—Single
Pile and Group Pile
Behavior of single~~

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piles vs. group piles. The ability of a pile group to resist lateral loads is a significant design issue. 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.

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~~Group Piles~~

~~FindAPile.com~~

Settlement of a pile group is more than the settlement of a single pile, even when the load is the same. This is because the pressure bulb of the pile group is deeper than that of individual piles, causing the compression of a larger volume of soil

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by the pile group. For pile groups in sand, the settlement is computed as follows:

~~Pile Group: Efficiency and Settlement | Pile Foundations ...~~

~~Integrated Deep Foundation Analysis and Design Software Suite. The combined software suite provides an~~

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integrated program interface which allows the users to undertake comprehensive analyses for various deep foundation design problems, such as Nonlinear Pile Group under General Loading (PileGroup), Laterally Loaded Single Piles (PileLAT), Axially Loaded

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Single Piles (PileAXL)
and Rock Socket (PileROC).

~~Deep Foundation~~

~~Design | Pile Groups |
Single Piles~~

Single Piles and Pile
Groups Under Lateral

Loading - Kindle
edition by Reese,

Lymon C., Van Impe,
William F.. Download

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Loading, Reese ...~~

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Seismic Response of
Single Piles and Pile
Groups Under
Lateral Loading
Report
2nd Edition

NCEER-91-0003

January 10, 1991

This research was
conducted at the
University at Buffalo,
State University of
New York and was
supported in whole or
in part by the

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National Science
Foundation under
grant number ECE
86-07591.

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~~Seismic Response of
Single Piles and Pile
Groups~~

~~Kinematic seismic
response of single
piles and pile groups~~

~~Kinematic seismic
response of single~~

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~~piles and pile groups~~
Pile head "fixity" conditions and the pile/soil modulus ratio are found to affect appreciably and in a similar way the seismic response of a single pile and of a pile group.

~~Kinematic Seismic
Response of Single
Piles and Pile Groups~~

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If required, group load tests shall be performed in groups of numerically average size. Except where the proposed foundation is limited to single and/or two pile groups, each test group shall contain not less than three piles. 5. Individual pile loadings shall not

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And Pile

exceed those
determined from the
single pile load tests.

6.

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~~Allowable Axial Load:~~

~~:: Pile Foundations-~~

~~loads :: New ...~~

Single Piles and Pile

Groups Under Lateral

Loading. The

complexities of

designing piles for

lateral loads are

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manifold as there are many forces that are critical to the design of big structures...

~~Single Piles and Pile Groups Under Lateral Loading~~
~~2nd Edition 2nd Edition By Reese Lymon C~~

Single piles and pile groups containing two, four, and six piles embedded in sandy soil were tested, and the results

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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 pile
groups embedded ...~~

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By using $-z$ curve of a single pile, the functional expressions between the pile skin friction and the depth of a foundation pile in a pile group can be obtained. Fully considering the mutual reinforcing effect of piles in pile groups, thus the deformation behavior

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of the foundation pile
is derived.

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

~~Load Transfer
Mechanisms in Piles
and Pile Groups. This
paper describes
patterns of measured
load transfer in a full-
sized instrumented~~

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pile group; subgroups within the main group; and in single control piles loaded in compression. The effects of residual stresses and uplift loading on load transfer are also described.

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The complexities of

Page 37/63

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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

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directions and most structures have in common that they are founded on piles. To create solid foundations, the pile designer is driven towards finding the critical load on a certain structure, either by causing overload or by causing too much lateral deflection. This

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second edition of
Reese and Van
Impe ' s course book
explores and explains
lateral load design
and procedures for
designing piles and
pile groups,
accounting for the
soil resistance, as
related to the lateral
deflection of the pile.
It addresses the
analysis of piles of

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varying stiffness
installed into soils
with a variety of
characteristics,
accounting for the
axial load at the top
of the pile and for the
rotational restraint of
the pile head. The
presented method
using load-transfer
functions is currently
applied in practice by
thousands of

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Engineering offices in the world. Moreover, various experimental case design examples, including the design of an offshore platform pile foundation are given to complement theory. The rich list of relevant publications will serve the user into further reading.

Designed as a

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textbook for senior undergraduate/graduate student courses in pile engineering, foundation engineering and related subjects, this set of book and CD-ROM will also benefit professionals in civil and mining engineering and in the applied earth sciences.

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Guiding the professional through the complexities of lateral-load design, this book and CD-ROM combination introduces the procedures involved in piles and pile group design. This is a problem that can only be solved by accounting for the

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soil resistance as related to the lateral deflection of the pile. Intricate equations are derived and fully explained, enabling the designer to find the critical loads, either causing a pile to be overloaded or causing too much lateral deflection. The CD-ROM contains simplified versions of

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two required programs that allow the reader to check the solutions of some of the examples given in the book and to find answers to related problems.

Guiding the professional through the complexities of lateral-load design, this book and CD-

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ROM combination introduces the procedures involved in piles and pile group design. This is a problem that can only be solved by accounting for the soil resistance as related to the lateral deflection of the pile. Intricate equations are derived and fully explained, enabling

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the designer to find the critical loads, that will either cause a pile to be overloaded or cause too much lateral deflection. The CD-ROM contains simplified versions of two required programs that allow the reader to check the solutions of some of the examples given in the book and to

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find answers to
related problems.

X, 62 leaves.

"The field of lateral-load design is a very complex one. This book and CD-ROM not only provides the reader with an overview of procedures involved in the designing of

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piles and pile groups,
but with a way of
finding answers to
related problems"--

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X, 62 leaves.

Reese Lymon C
Van Impe

Great strides have
been made in the art
of foundation design
during the last two
decades. In situ

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testing, site improvement techniques, the use of geogrids in the design of retaining walls, modified ACI codes, and ground deformation modeling using finite elements are but a few of the developments that have significantly advanced foundation engineering in recent

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years. What has been lacking, however, is a comprehensive reference for

foundation engineers that incorporates these state-of-the-art concepts and techniques. The

Foundation Engineering Handbook fills that void. It presents both classical and state-of-

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the-art design and analysis techniques for earthen structures, and covers basic soil mechanics and soil and groundwater modeling concepts along with the latest research results. It addresses isolated and shallow footings, retaining structures, and modern methods

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of pile construction monitoring, as well as stability analysis and ground improvement methods. The handbook also covers reliability-based design and LRFD (Load Resistance Factor Design)-concepts not addressed in most foundation engineering texts.

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Easy-to-follow numerical design examples illustrate each technique. Along with its unique, comprehensive coverage, the clear, concise discussions and logical organization of The Foundation Engineering Handbook make it the one quick reference

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Every practitioner and student in the field needs.

Lateral Loading 2nd Edition 2nd

Edition By

Pile group
Reese, Lyman C
Van Impe

foundations are used
in most foundation
solutions for
transportation

structures. Rigorous
and reliable pile
design methods are

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required to produce designs whose level of safety (probability of failure) is known. By utilizing recently developed, advanced, two-surface plasticity constitutive models, rigorous finite element analyses are conducted. These analyses are for axially loaded single piles and pile groups

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with several pile-to-pile distances in various group configurations

installed in sandy and clayey soil profiles.

The analyses shed light on the

relationships between the global response of the pile-soil system

(development of shaft and base resistances)

and the behavior of

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local soil elements (e.g., shear band formation). The influence of the group configuration, pile-topile spacing, soil profile, and pile head settlement on the group effects are studied. Mechanisms of pile-soil-pile interactions in pile groups are revealed. Pile efficiencies for

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Individual piles and the overall pile group are reported for use in pile group design. The instrumentation, installation, and static and dynamic testing of a closed-ended, driven pipe pile in Marshall County, Indiana is documented. The test results along with two other case histories

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are used to verify the new Purdue pile design method.

Probabilistic analyses are performed to

develop resistance factors for the load

and resistance factor design, LRFD, of vii

pile groups

considering both

displacement and non-displacement piles,

various soil profiles,

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and two target probabilities of failure. The pile design equations, pile group efficiencies and resistance factors together form the LRFD pile design framework. Two step-by-step design examples are provided to demonstrate the LRFD pile design

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