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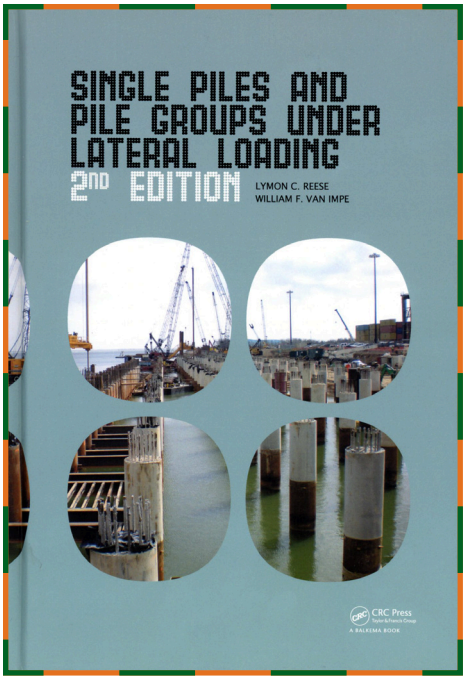
SINGLE PILES AND PILE GROUPS UNDER LATERAL LOADING (2nd Ed.)

by

Lymon C. Reese
William F. Van Impe

The best single reference for laterally-loaded piles



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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 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 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 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 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 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.

Table of Contents:

CD-ROM in the back jacket includes a student version of LPILE, TZPILE and GROUP software.

The bibliography is 14 pages long, and it thoroughly covers all of the relevant geotechnical literature.

The hard-cover book is bound with Smyth-sewn signatures on good quality paper.

The inside pages are black & white (no color) with many line drawings and charts, but few photographs.

About the Authors:

LYMON C. REESE (1917-2009) was Nasser I. Al Rashid Chair Emeritus and Professor of Civil Engineering at the University of Texas, Austin, as well as a partner in the firm of Lymon C. Reese & Associates.

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