



Geotechnical Engineering Handbook, Elements and Structures (Volume 3)

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Volume 3 of this Handbook deals with foundations. It presents spread foundations starting with basic designs right up the necessary proofs. The section on pile foundations covers possible types of piles and their design, together with their load-bearing capacity, suitability, sample loads and testing. A further chapter explains the use, manufacture and calculation of caissons, illustrated by real-life examples. There is comprehensive coverage of the possibilities for stabilising excavations, together with the relevant area of application, while another section is devoted to the useful application of trench walls. Shore protection is treated in a special contribution covering sheet pile walls, while all types of slope protection and retainments are described in detail with excellent illustrations. Two further contributions are devoted to the special topics of machine foundations and foundations in subsidence regions. The entire book is an indispensable aid in the planning and execution of all types of foundations found in practice, whether for academics or practitioners.

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- Sales Rank: #5462014 in Books
- Published on: 2003-04-02
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x 1.48" w x 7.20" l, 3.17 pounds
- Binding: Hardcover
- 666 pages

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Editorial Review

From the Back Cover

In this third volume of the Geotechnical Engineering Handbook the theories and methods covered in the two previous volumes are used in practical situations for all kinds of geotechnical structures, such as spread foundations, pile foundations, caissons, excavation retainments, trench, sheet pile and gravity walls, machine foundations, foundations in subsidence areas and watertight structures.

The first English edition is based on earlier German editions but with several new authors, and with due adaption in favour of the English speaking profession.

About the Author

Ulrich Smoltczyk is editor of the German Grundbau Taschenbuch. He was Professor for Geotechnical Engineering in Stuttgart and sat on numerous national and international committees responsible for norms and standards.

The third volume is written by 16 authors, including renowned experts from the U.K., Austria, Poland, Canada and Germany.

Users Review

From reader reviews:

Jack Crawford:

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Luis Morales:

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