

Foundation Engineering Handbook 2nd Edition

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The Foundation Engineering Handbook, Second Edition provides the fundamentals of foundation engineering needed by professional engineers and engineering students.

The Foundation Engineering Handbook 2nd Edition

Revised to cover the 2009 International Building Code, Foundation Engineering Handbook, Second Edition presents basic geotechnical field and laboratory studies, such as subsurface exploration and laboratory testing of soil, rock, and groundwater samples. The book then discusses the geotechnical aspects of foundation engineering, including conditions commonly encountered by design engineers--settlement, expansive soil, and slope stability.

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FOUNDATION ENGINEERING HANDBOOK Second Edition Edited by HSAI-YANG FANG Ph.D. Professor of Civil Engineering and Director, Geotechnical Engineering Division, Fritz Engineering Laboratory, Lehigh University - VAN NOSTRANO REINHOLD - _____ New York

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Foundation Engineering Subsoil Exploration Ahmed S. Al-Agha Note that the above equation is based on the assumption that the stress from the foundation spreads out with a vertical-to-horizontal slope of 2:1. Now, the values of (D 1 and D 2) can be calculated easily as will be seen later.

Basics of Foundation Engineering with Solved Problems

The Foundation Engineering Handbook, Second Edition provides the fundamentals of foundation engineering needed by professional engineers and engineering students.

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Considering how structures interact with soil, and building proper foundations, is vital to ensuring public safety and to the longevity of buildings. Understanding the strength and compressibility of subsurface soil is essential to the foundation engineer. The Foundation Engineering Handbook, Second Edition provides the fundamentals of foundation e

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Dr. Ralph Brazelton Peck was an eminent civil engineer specializing in soil mechanics. He was awarded the National Medal of Science in 1975. Walter E. Hanson is the author of Foundation Engineering, 2nd Edition, published by Wiley.

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His most recent publication is Principles of Foundation Engineering, 9th edition (Cengage), which was released in October 2017 with a 2019 copyright. For the first through eighth editions, he was the only author. The ninth edition has a co-author (N. Sivakugan, James Cook University, Australia).

More than ten years have passed since the first edition was published. During that period there have been a substantial number of changes in geotechnical engineering, especially in the applications of foundation engineering. As the world population increases, more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used. Such areas include problematic soil regions, mining subsidence areas, and sanitary landfills. To overcome the problems associated with these natural or man-made soil deposits, new and improved methods of analysis, design, and implementation are needed in foundation construction. As society develops and living standards rise, tall buildings, transportation facilities, and industrial complexes are increasingly being built. Because of the heavy design loads and the complicated environments, the traditional design concepts, construction materials, methods, and equipment also need improvement. Further, recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost-saving methods for foundation design and construction.

Standard and advanced methods for every type of foundation engineering Incorporating the expertise of a distinguished team of soil and foundation engineers, this expanded and updated Handbook clarifies and simplifies every part of the job, from site assessment through design and construction, to remediation of failed foundations. Here are proven, expert design alternatives for even substandard soil and challenging site conditions, with example problems for any type of structure. You get not only important how-to's, but equally vital how-not-to's that prevent costly damage to structures and professional reputations. Handy illustrations, charts, tables, and case-study examples ease your work. You also get full coverage of failure analysis and repairs New in this edition are treatments of forensics investigations; grouting substandard soils; special coverage of lightly loaded foundations, pier and beam, as well as conventional and post-tension slabs; advice on litigation and role of expert witnesses; and much more.

Great strides have been made in the art of foundation design during the last two decades. In situ 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 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-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 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. 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 every practitioner and student in the field needs.

The Geotechnical Engineering Handbook brings together essential information related to the evaluation of engineering properties of soils, design of foundations such as spread footings, mat foundations, piles, and drilled shafts, and fundamental principles of analyzing the stability of slopes and embankments, retaining walls, and other earth-retaining structures. The Handbook also covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical, sliding and rocking excitations and topics addressed in some detail include: environmental geotechnology and foundations for railroad beds.

A fully up-to-date, practical guide to foundation engineering Revised to cover the 2009 International Building Code, Foundation Engineering Handbook, Second Edition presents basic geotechnical field and laboratory studies, such as subsurface exploration and laboratory testing of soil, rock, and groundwater samples. The book then discusses the geotechnical aspects of foundation engineering, including conditions commonly encountered by design engineers--settlement, expansive soil, and slope stability. Details on the performance or engineering evaluation of foundation construction and the application of the 2009 International Building Code are included in this valuable resource. FOUNDATION ENGINEERING HANDBOOK, SECOND EDITION COVERS: Subsurface exploration Laboratory testing Soil mechanics Shallow and deep foundations Bearing capacity and settlement of foundations Foundations on expansive soil Slope stability Retaining walls Foundation deterioration and cracking Geotechnical earthquake engineering for soils, foundations, and retaining walls Grading and other soil improvement methods Foundation excavation, underpinning, and field load tests Geosynthetics and instrumentation 2009 International Building Code regulations for soils and foundations

The Most Complete and Up-to-Date Resource on Forensic Structural Engineering Thoroughly revised and featuring contributions from leading experts, this definitive handbook offers comprehensive treatment of forensic structural engineering and expert witness delivery. From exploring the possible origins of errors, through investigating and analyzing failures, to working with the legal profession for assigning responsibilities, Forensic Structural Engineering Handbook, Second Edition covers every important topic in the field. The design and construction process Design and construction safety codes, standards, and regulations Standard of care and duty to perform First steps and legal concerns after a failure Engineering investigation of failures Origins and causes of failures Loads and hazards Design errors, construction defects, and project miscommunication Defects, deterioration, and durability Mechanisms and analyses of failures in steel, concrete, masonry, timber, and temporary structures; building envelope; and structural foundations Litigation and dispute resolution The expert consultant and witness

One-volume library of instant geotechnical and foundation data Now for the first time ever, geotechnical, foundation, and civil engineers...geologists...architects, planners, and construction managers can quickly find information they must refer to every working day, in one compact source. Edited by Robert W. Day, the time -and effort-saving Geotechnical Engineer's Portable Handbook gives you field exploration guidelines and lab procedures. You'll find soil and rock classification, basic phase relationships, and all the tables and charts you need for stress distribution, pavement, and pipeline design. You also get abundant information on all types of geotechnical analyses, including settlement, bearing capacity, expansive soil, slope stability - plus coverage of retaining walls and building foundations. Other construction-related topics covered include grading, instrumentation, excavation, underpinning, groundwater control and more.

Publisher Description

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

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