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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.

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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.

Publisher Description

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

With the emphasis on visual aspects by including numerous charts, tables, and illustrations, this handbook presents practical information on oil and foundation engineering. A distinguished team of engineers takes the reader step by step through site development, soil mechanics, and foundation design analysis and construction techniques. New material is added on grouting foundation repair, forensic investigations, and residential and light construction procedures. 750 illus.

This second edition of the successful Foundations on Rock presents an up-to-date practical reference book describing current engineering practice in the investigation, design and construction of foundations on rock. An extra chapter on Tension Foundations has been included. The methods set out are readily applicable to high rise buildings, bridges,

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's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Master the art and science of foundation engineering This civil engineering textbook shows how geotechnical theory connects with the design and construction of today ' s foundations. Foundation Engineering: Geotechnical Principles and Practical Applications shows how to perform critical calculations, apply the newest ground modification technologies, engineer and build effective foundations, and monitor performance and safety. Written by a recognized expert in the field, the book covers both shallow and deep foundations. Real-world case studies and practice problems help reinforce key information. Coverage includes: • Soil classification, clay, and minerals • Moisture content and unit weight • Shear strength • Consolidation • Terzaghi ' s eureka moment • Shallow foundations, stress distribution, and settlement • Flow nets, seepage, and dewatering • Slope stability • Deep foundations • Ground modification • Retaining walls and wall friction • Empirical tests • Field monitoring • Ethics and legal issues

Soil Mechanics and Foundation Engineering, 2e Presents the principles of soil mechanics and foundation engineering in a simplified yet logical manner that assumes no prior knowledge of the subject. It includes all the relevant content required for a sound background in the subject, reinforcing theoretical aspects with comprehensive practical applications.

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.

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