

Geotechnical Engineering Handbook

Geotechnical Engineers Portable Handbook, Second Edition
Handbook of Geotechnical Testing: Basic Theory, Procedures and Comparison of Standards
Geotechnical Engineering Practical Foundation Engineering Handbook, 2nd Edition
Geotechnical Engineering Handbook
Geotechnical Engineers Portable Handbook, Second Edition
Earthquake Engineering Handbook
Tunnel Engineering Handbook
Handbook for Marine Geotechnical Engineering
Bridge Engineering Handbook of Tropical Residual Soils Engineering
Foundation Engineering Handbook 2/Introduction to Geotechnical Engineering
Geotechnical Engineering Handbook
Foundation Engineering Handbook
The Civil Engineering Handbook
Geotechnical Earthquake Engineering Handbook
Geotechnical Engineering Handbook, Fundamentals
Natural Gas Engineering Handbook
Concrete Construction Engineering Handbook
Geotechnical Engineer's Portable Handbook
Subsea Engineering Handbook
Geotechnical Engineering Handbook, Procedures
Geotechnical and Geoenvironmental Engineering Handbook
The International Handbook of FRP Composites in Civil Engineering
Principles of Geotechnical Engineering
Geotechnical and Foundation Engineering
Handbook of Port and Harbor Engineering
Electrical Engineering Fundamentals of Geotechnical Engineering
Handbook of Geotechnical Investigation and Design Tables
Geotechnical Engineering
Geotechnical Engineering Calculations and Rules of Thumb
Muskege Engineering Handbook
Geotechnical Engineering
Geotechnical Engineering Handbook, Elements and Structures
Geotechnical Engineering Investigation Handbook, Second Edition
The Foundation Engineering Handbook
Foundation Engineering Handbook
Geotechnical Engineering Handbook

Geotechnical Engineers Portable Handbook, Second Edition

Subsea production systems, overview of subsea engineering, subsea field development, subsea distribution system. Flow assurance and system engineering. Subsea structure and equipment. Subsea umbilical, risers and flowlines.

Handbook of Geotechnical Testing: Basic Theory, Procedures and Comparison of Standards

Written in a concise, easy-to-understand manner, INTRODUCTION TO GEOTECHNICAL ENGINEERING, 2e, presents intensive research and observation in the field and lab that have improved the science of foundation design. Now providing both U.S. and SI units, this non-calculus-based text is designed for courses in civil engineering technology programs where soil mechanics and foundation engineering are combined into one course. It is also a useful reference tool for civil engineering practitioners. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineering

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.

Practical Foundation Engineering Handbook, 2nd Edition

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.

Geotechnical Engineering Handbook

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.

Geotechnical Engineers Portable Handbook, Second Edition

This practical handbook of properties for soils and rock contains, in a concise tabular format, the key issues relevant to geotechnical investigations, assessments and designs in common practice. In addition, there are brief notes on the application of the tables. These data tables are compiled for experienced geotechnical professionals who require a reference document to access key information. There is an extensive database of correlations for different applications. The book should provide a useful bridge between soil and rock mechanics theory and its application to practical engineering solutions. The initial chapters deal with the planning of the geotechnical investigation, the classification of the soil and rock properties and some of the more used testing is then covered. Later chapters show the reliability and correlations that are used to convert that data in the interpretative and assessment phase of the project. The final chapters apply some of these concepts to geotechnical design. This book is intended primarily for practicing geotechnical engineers working in investigation, assessment and design, but should provide a useful supplement for postgraduate courses.

Earthquake Engineering Handbook

Written by a leader on the subject, Introduction to Geotechnical Engineering is first introductory geotechnical engineering textbook to cover both saturated and unsaturated soil mechanics. Destined to become the next leading text in the field, this book presents a new approach to teaching the subject, based on fundamentals of unsaturated soils, and extending the description of applications of soil mechanics to a wide variety of topics. This groundbreaking work features a number of topics typically left out of undergraduate geotechnical courses.

Tunnel Engineering Handbook

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.

Handbook for Marine Geotechnical Engineering

The demand for energy consumption is increasing rapidly. To avoid the impending energy crunch, more producers are switching from oil to natural gas. While natural gas engineering is well documented through many sources, the computer applications that provide a crucial role in engineering design and analysis are not well published, and emerging technologies, such as shale gas drilling, are generating more advanced applications for engineers to utilize on the job. To keep producers updated, Boyun Guo and Ali Ghalambor have enhanced their best-selling manual, Natural Gas Engineering Handbook, to continue to provide upcoming and practicing engineers the full scope of natural gas engineering with a computer-assisted approach. This must-have handbook includes:

- A focus on real-world essentials rather than theory
- Illustrative examples throughout the text
- Working spreadsheet programs for all the engineering calculations on a free and easy to use companion site
- Exercise problems at the end of every chapter, including newly added questions utilizing the spreadsheet programs
- Expanded sections covering today's technologies, such as multi-fractured horizontal wells and shale gas wells

Bridge Engineering

A must have reference for any engineer involved with foundations, piers, and retaining walls, this remarkably comprehensive volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations. It covers the latest developments in the design of drilled pier foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of laterally loaded long vertical and batter piles. As complete and authoritative as any volume on the subject, it discusses soil formation, index properties, and classification; soil permeability, seepage, and the effect of water on stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just the quick reference it affords to a huge range of tests and the appendices filled with essential data, makes it an essential addition to an civil engineering library.

Handbook of Tropical Residual Soils Engineering

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete construction engineering and technology. Living up to the standard set by its bestselling predecessor, this second edition of the Concrete Construction Engineering Handbook covers the entire range of issues pertaining to the construction

Foundation Engineering Handbook 2/E

Introduction to Geotechnical Engineering

FUNDAMENTALS OF GEOTECHNICAL ENGINEERING, 5E offers a powerful combination of essential components from Braja Das' market-leading books: PRINCIPLES OF GEOTECHNICAL ENGINEERING and PRINCIPLES OF FOUNDATION ENGINEERING in one cohesive book. This unique, concise geotechnical engineering book focuses on the fundamental concepts of both soil mechanics and foundation engineering without the distraction of excessive details or cumbersome alternatives. A wealth of worked-out, step-by-step examples and valuable figures help readers master key concepts and strengthen essential problem solving skills. Prestigious authors Das and Sivakugan maintain the careful balance of today's most current research and practical field applications in a proven approach that has made Das' books leaders in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineering Handbook

Resource added for the Civil Engineering Technology program 106071.

Foundation Engineering Handbook

This indispensable handbook provides state-of-the-art information and common sense guidelines, covering the design, construction, modernization of port and harbor related marine structures. The design procedures and guidelines address the complex problems and illustrate factors that should be considered and included in appropriate design scenarios.

The Civil Engineering Handbook

Geotechnical Earthquake Engineering Handbook

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

Geotechnical Engineering Handbook, Fundamentals

Access usable seismic engineering data right at your fingertips Don't miss out on the first book specifically devoted to seismology, geotechnical engineering basics, earthquake analysis, and site improvement methods. Written by Robert Day, one of the most respected names in the field, Geotechnical Earthquake Engineering Handbook is a one-stop resource that gives you instant access to: Field and laboratory testing methods and procedures Current seismic codes Site improvement methods In-depth earthquake engineering analysis as applied to soils Worked-out problems illustrating earthquake analysis Subsurface exploration data Fundamental geotechnical engineering principles

Natural Gas Engineering Handbook

Designed to give engineers a crash course in all aspects of modern geotechnical and foundation engineering Takes readers step-by-step through the typical process of a design project--from proposal-writing to the final preparation of the "as built" report Includes numerous visual aids: photographs, charts, tables, and more than 350 illustrations

Concrete Construction Engineering Handbook

This practical resource focuses on foundation engineering, emphasizing the geotechnical aspects and the use of the International Building Code(R). Develop a complete program of foundation investigation Deal with geotechnical field and laboratory studies Analyze data for the design of foundations Carry out an engineering evaluation of foundation construction Prepare foundation engineering reports

Geotechnical Engineer's Portable Handbook

Geotechnical Engineering Calculations Manual offers geotechnical, civil and structural engineers a concise, easy-to-

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understand approach the formulas and calculation methods used in of soil and geotechnical engineering. A one stop guide to the foundation design, pile foundation design, earth retaining structures, soil stabilization techniques and computer software, this book places calculations for almost all aspects of geotechnical engineering at your finger tips. In this book, theories is explained in a nutshell and then the calculation is presented and solved in an illustrated, step-by-step fashion. All calculations are provided in both fps and SI units. The manual includes topics such as shallow foundations, deep foundations, earth retaining structures, rock mechanics and tunnelling. In this book, the author's done all the heavy number-crunching for you, so you get instant, ready-to-apply data on activities such as: hard ground tunnelling, soft ground tunnelling, reinforced earth retaining walls, geotechnical aspects of wetland mitigation and geotechnical aspects of landfill design. • Easy-to-understand approach the formulas and calculations • Covers calculations for foundation, earthworks and/or pavement subgrades • Provides common codes for working with computer software • All calculations are provided in both US and SI units

Subsea Engineering Handbook

Instant access to the latest geotechnical engineering data Fully updated to include the 2012 International Building Code (IBC), Geotechnical Engineer's Portable Handbook, Second Edition, features a wealth of on-the-job geotechnical and construction related information in a convenient, quick-reference format. This practical resource is filled with essential data, formulas, and guidelines you can access right away. Detailed tables, charts, graphs, and illustrations are included throughout the book for ease of use in the field. Coverage includes: Field exploration Laboratory testing Soil and rock classification Phase relationships Effective stress and stress distribution Shear strength Permeability and seepage Settlement analyses Bearing capacity analyses Pavement and pipeline design Expansive soil Slope stability Geotechnical earthquake engineering Erosion analyses Retaining walls Deterioration Foundations Grading and other site improvement methods Groundwater and percolation tests Excavation, underpinning, and field lead tests Geosynthetics Instrumentation International Building Code regulations for soils International Building Code regulations for foundations

Geotechnical Engineering Handbook, Procedures

Review of the state of the art of muskeg utilization.

Geotechnical and Geoenvironmental Engineering Handbook

The International Handbook of FRP Composites in Civil Engineering

Residual soils are found in many parts of the world. Like other soils, they are used extensively in construction, either to build upon, or as construction material. They are formed when the rate of rock weathering is more rapid than transportation of the weathered particles by e.g., water, gravity and wind, which results in a large share of the soil

Principles of Geotechnical Engineering

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.

Geotechnical and Foundation Engineering

Preface. Dedication. List of Figures. List of Tables. List of Contributors. Basic Behavior and Site Characterization. 1. Introduction; R.K. Rowe. 2. Basic Soil Mechanics; P.V. Lade. 3. Engineering Properties of Soils and Typical Correlations; P.V. Lade. 4. Site Characterization; D.E. Becker. 5. Unsaturated Soil Mechanics and Property Assessment; D.G. Fredlund, et al. 6. Basic Rocks Mechanics and Testing; K.Y. Lo, A.M. Hefny. 7. Geosynthetics: Characteristics and Testing; R.M. Koerner, Y.G. Hsuan. 8. Seepage, Drainage and Dewatering; R.W. Loughney. Foundations and Pavements. 9. Shallo.

Handbook of Port and Harbor Engineering

Intended as an introductory text in soil mechanics, the eighth edition of Das, PRINCIPLES OF GEOTECHNICAL ENGINEERING offers an overview of soil properties and mechanics together with coverage of field practices and basic engineering procedure. Background information needed to support study in later design-oriented courses or in professional practice is provided through a wealth of comprehensive discussions, detailed explanations, and more figures and worked out problems than any other text in the market. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Electrical Engineering

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.

Fundamentals of Geotechnical Engineering

Determination of the physical, chemical and mechanical properties of ground materials is the key to successfully deliver such projects as slope stabilization, excavation and lateral support, foundation etc. A book containing both theory of geomaterial testing and up-to-date testing methods is much in demand for obtaining reliable and accurate test results. This book is intended primarily to serve this need and aims at the clear explanation, in adequate depth, of the fundamental principles, requirements and procedures of soil and rock tests. It is intended that the book will serve as a useful source of reference for professionals in the field of geotechnical and geological engineering. It can work as a one-stop knowledge warehouse to build a basic cognition of material tests on which the readers are working. It helps college students bridge the gap between class education and engineering practice, and helps academic researchers guarantee reliable and accurate test results. It is also useful for training new technicians and providing a refresher for veterans. Engineers contemplating the ICE, IOM3 and other certification exams will find this book an essential test preparation aid. It is assumed that the reader has no prior knowledge of the subject but has a good understanding of basic mechanics.

Handbook of Geotechnical Investigation and Design Tables

The Geotechnical Engineering Investigation Handbook provides the tools necessary for fusing geological characterization and investigation with critical analysis for obtaining engineering design criteria. The second edition updates this pioneering

reference for the 21st century, including developments that have occurred in the twenty years since the first edition was published, such as:

- Remotely sensed satellite imagery
- Global positioning systems (GPS)
- Geophysical exploration
- Cone penetrometer testing
- Earthquake studies
- Digitizing of data recording and retrieval
- Field and laboratory testing and instrumentation
- Use of the Internet for data retrieval

The Geotechnical Engineering Investigation Handbook, Second Edition is a comprehensive guide to a complete investigation: study to predict geologic conditions; test-boring procedures; various geophysical methods and when each is appropriate; various methods to determine engineering properties of materials, both laboratory-based and in situ; and formulating design criteria based on the results of the analysis. The author relies on his 50+ years of professional experience, emphasizing identification and description of the elements of the geologic environment, the data required for analysis and design of the engineering works, and procuring the data. By using a practical approach to problem solving, this book helps engineers consider geological phenomena in terms of the degree of their hazard and the potential risk of their occurrence.

Geotechnical Engineering

The Tunnel Engineering Handbook, Second Edition provides, in a single convenient volume, comprehensive coverage of the state of the art in the design, construction, and rehabilitation of tunnels. It brings together essential information on all the principal classifications of tunnels, including soft ground, hard rock, immersed tube and cut-and-cover, with comparisons of their relative advantages and suitability. The broad coverage found in the Tunnel Engineering Handbook enables engineers to address such critical questions as how tunnels are planned and laid out, how the design of tunnels depends on site and ground conditions, and which types of tunnels and construction methods are best suited to different conditions. Written by the leading engineers in the fields, this second edition features major revisions from the first, including:

- * Complete updating of all chapters from the first edition
- * Seven completely new chapters covering tunnel stabilization and lining, difficult ground, deep shafts, water conveyance tunnels, small diameter tunnels, fire life safety, tunnel rehabilitation and tunnel construction contracting
- * New coverage of the modern philosophy and techniques of tunnel design and tunnel construction contracting

The comprehensive coverage of the Tunnel Engineering Handbook makes it an essential resource for all practicing engineers engaged in the design of tunnels and underground construction. In addition, the book contains a wealth of information that government administrators and planners and transportation officials will use in the planning and management of tunnels.

Geotechnical Engineering Calculations and Rules of Thumb

Geotechnical Engineering: A Practical Problem Solving Approach covers all of the major geotechnical topics in the simplest possible way adopting a hands-on approach with a very strong practical bias. You will learn the material through worked

examples that are representative of realistic field situations whereby geotechnical engineering principles are applied to solve real-life problems.

Muskeg Engineering Handbook

Fiber-reinforced polymer (FRP) composites have become an integral part of the construction industry because of their versatility, enhanced durability and resistance to fatigue and corrosion, high strength-to-weight ratio, accelerated construction, and lower maintenance and life-cycle costs. Advanced FRP composite materials are also emerging for a wide range of civil infrastructure applications. These include everything from bridge decks, bridge strengthening and repairs, and seismic retrofit to marine waterfront structures and sustainable, energy-efficient housing. The International Handbook of FRP Composites in Civil Engineering brings together a wealth of information on advances in materials, techniques, practices, nondestructive testing, and structural health monitoring of FRP composites, specifically for civil infrastructure. With a focus on professional applications, the handbook supplies design guidelines and standards of practice from around the world. It also includes helpful design formulas, tables, and charts to provide immediate answers to common questions. Organized into seven parts, the handbook covers: FRP fundamentals, including history, codes and standards, manufacturing, materials, mechanics, and life-cycle costs Bridge deck applications and the critical topic of connection design for FRP structural members External reinforcement for rehabilitation, including the strengthening of reinforced concrete, masonry, wood, and metallic structures FRP composites for the reinforcement of concrete structures, including material characteristics, design procedures, and quality assurance-quality control (QA/QC) issues Hybrid FRP composite systems, with an emphasis on design, construction, QA/QC, and repair Quality control, quality assurance, and evaluation using nondestructive testing, and in-service monitoring using structural health monitoring of FRP composites, including smart composites that can actively sense and respond to the environment and internal states FRP-related books, journals, conference proceedings, organizations, and research sources Comprehensive yet concise, this is an invaluable reference for practicing engineers and construction professionals, as well as researchers and students. It offers ready-to-use information on how FRP composites can be more effectively utilized in new construction, repair and reconstruction, and architectural engineering.

Geotechnical Engineering

Earthquakes are nearly unique among natural phenomena - they affect virtually everything within a region, from massive buildings and bridges, down to the furnishings within a home. Successful earthquake engineering therefore requires a broad background in subjects, ranging from the geologic causes and effects of earthquakes to understanding the imp

Geotechnical Engineering Handbook, Elements and Structures

Instant access to the latest geotechnical engineering data Fully updated to include the 2012 International Building Code (IBC), Geotechnical Engineer's Portable Handbook, Second Edition, features a wealth of on-the-job geotechnical and construction related information in a convenient, quick-reference format. This practical resource is filled with essential data, formulas, and guidelines you can access right away. Detailed tables, charts, graphs, and illustrations are included throughout the book for ease of use in the field. Coverage includes: Field exploration Laboratory testing Soil and rock classification Phase relationships Effective stress and stress distribution Shear strength Permeability and seepage Settlement analyses Bearing capacity analyses Pavement and pipeline design Expansive soil Slope stability Geotechnical earthquake engineering Erosion analyses Retaining walls Deterioration Foundations Grading and other site improvement methods Groundwater and percolation tests Excavation, underpinning, and field load tests Geosynthetics Instrumentation International Building Code regulations for soils International Building Code regulations for foundations

Geotechnical Engineering Investigation Handbook, Second Edition

The Foundation Engineering Handbook

Mitigating the effects of earthquakes is crucial to bridge design. With chapters culled from the best-selling Bridge Engineering Handbook, this volume sets forth the principles and applications of seismic design, from the necessary geotechnical and dynamic analysis background to seismic isolation and energy dissipation, active control, and retrofit technology. In-depth discussions contributed by bridge and earthquake engineers from around the world cover the types and effects of earthquake damage and structural performance criteria. The book also includes an overview of seismic design practices in Japan, including a study of the damage to highway bridges caused by the Hyogo-ken Nanbu earthquake and the changes in retrofit practices precipitated by that earthquake.

Foundation Engineering Handbook

Volume 2 of the Handbook covers the geotechnical procedures used in manufacturing anchors and piles as well as for improving or underpinning foundations, securing existing constructions, controlling ground water, excavating rocks and earth works. It also treats such specialist areas as the use of geotextiles and seeding.

Geotechnical Engineering Handbook

Volume 1 covers the basics necessary for any construction activity in foundation engineering. This systematic introduction to the assessment of soil and rock properties provides an insight into the requirements of Eurocode 7, Parts 1 and 3. It also gives details of geotechnical laboratory and field tests and the associated equipment, concise treatments of relevant solutions provided by the theories of elasticity and plasticity and numerical methods applied to solve problems of geotechnical design. The problems of earthquakes are also explained with regard to Eurocode 8.

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