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Foundation Analysis and Design

Foundation Analysis and Design

The revision of this best-selling text for a junior/senior course in Foundation Analysis and Design now includes an IBM computer disk containing 16 compiled programs together with the data sets used to produce the output sheets, as well as new material on sloping ground, pile and pile group analysis, and procedures for an improved anlysis of lateral piles. Bearing capacity analysis has been substantially revised for footings with horizontal as well as vertical loads. Footing design for overturning now incorporates the use of the same uniform linear pressure concept used in ascertaining the bearing capacity. Increased emphasis is placed on geotextiles for retaining walls and soil nailing.

Foundation Analysis and Design *McGraw-Hill Companies*

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Cellular Cofferdams *Lulu.com*

Physical and Geotechnical Properties of Soils

Analytical and Computer Methods in Foundation Engineering *McGraw-Hill Companies*

Principles of Foundation Engineering *Cengage Learning*

Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Basics of Retaining Wall Design 11th Edition

A Design Guide for Earthh Retaining Structures

UPDATED AND EXPANDED NEW 11TH EDITION. Design guide for earth retaining structures covers nearly every type of earth retaining structure: cantilevered, counterfort, restrained (basement walls), gravity, segmental, sheet pile, soldier pile, and others. Current building code requirements are referenced throughout. Topics include types of retaining structures, basic soil mechanics, design of concrete and masonry walls, lateral earth pressures, seismic design, surcharges, pile and pier foundations, Gabion walls and swimming pool walls. Fourteen varied design examples. Comprehensive Appendix with Glossary of terminology. 257 pages. 8-1/2x11 paperback.

Design and Analysis *010 Publishers*

FOUNDATION ENGINEERING *PHI Learning Pvt. Ltd.*

Foundation Engineering is of prime importance to undergraduate and postgraduate students of civil engineering as well as to practising engineers. For, there is no construction - be it buildings (government, commercial and residential), bridges, highways, or dams - that does not draw from the principles and application of this subject. Unlike many textbooks on Geotechnical Engineering that deal with both Soil Mechanics and Foundation Engineering, this text gives an exclusive treatment and an indepth analysis of Foundation Engineering. What distinguishes the text is that it not merely equips the students with the necessary knowledge for the course and examination, but provides a solid foundation for further practice in their profession later. In addition, as the book is based on the Codes prescribed by the Bureau of Indian Standards, students of Indian universities will find it particularly useful. The author is specialized in both Soil Mechanics and Structural Engineering; he studied Soil Mechanics under the guidance of Prof. Terzaghi and Prof. Casagrande of Harvard University - the pioneers of the subject. Similarly, he studied Structural Engineering under Prof. A.L.L. Baker of Imperial College, London, the pioneer of Limit State Design. These specializations coupled with over 50 years of teaching experience of the author make this text authoritative and exhaustive. Intended as a text for undergraduate (Civil Engineering) and postgraduate (Geotechnical Engineering and Structural Engineering) students, the book would also be found highly useful to practising engineers and young academics teaching the course.

The Foundation Engineering Handbook *CRC Press*

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.

Soil Strength and Slope Stability *John Wiley & Sons*

"Soil Strength and Slope Stability is the essential text for the critical assessment of natural and man-made slopes. Extensive case studies throughout help illustrate the principles and techniques described, including a new examination of Hurricane Katrina failures, plus examples of soil and slope engineering from around the world. Extraneous theory has been excluded to place the focus squarely on the practical application of slope design and analysis techniques, including information about standards, regulations, formulas, and the use of software in analysis."--pub. desc.

Foundations of Human Sociality

Economic Experiments and Ethnographic Evidence from Fifteen Small-Scale Societies *OUP Oxford*

What motives underlie the ways humans interact socially? Are these the same for all societies? Are these part of our nature, or influenced by our environments? Over the last decade, research in experimental economics has emphatically falsified the textbook representation of Homo economicus. Literally hundreds of experiments suggest that people care not only about their own material payoffs, but also about such things as fairness, equity and reciprocity. However, this research left fundamental questions unanswered: Are such social preferences stable components of human nature; or, are they modulated by economic, social and cultural environments? Until now, experimental research could not address this question because virtually all subjects had been university students, and while there are cultural differences among student populations throughout the world, these differences are small compared to the full range of human social and cultural environments. A vast amount of ethnographic and historical research suggests that people's motives are influenced by economic, social, and cultural environments, yet such methods can only yield circumstantial evidence about human motives. Combining ethnographic and experimental approaches to fill this gap, this book breaks new ground in reporting the results of a large cross-cultural study aimed at determining the sources of social (non-selfish) preferences that underlie the diversity of human sociality. The same experiments which provided evidence for social preferences among university students were performed in fifteen small-scale societies exhibiting a wide variety of social, economic and cultural conditions by experienced field researchers who had also done long-term ethnographic field work in these societies. The findings of these experiments demonstrated that no society in which experimental behaviour is consistent with the canonical model of self-interest. Indeed, results showed that the variation in behaviour is far greater than previously thought, and that the differences between societies in market integration and the importance of cooperation explain a substantial portion of this variation, which individual-level economic and demographic variables could not. Finally, the extent to which experimental play mirrors patterns of interaction found in everyday life is traced. The book starts with a succinct but substantive introduction to the use of game theory as an analytical tool and its use in the social sciences for the rigorous testing of hypotheses about fundamental aspects of social behaviour outside artificially constructed laboratories. The results of the fifteen case studies are summarized in a suggestive chapter about the scope of the project.

Advanced Geotechnical Engineering

Soil-Structure Interaction using Computer and Material Models *CRC Press*

Soil-structure interaction is an area of major importance in geotechnical engineering and geomechanics Advanced Geotechnical Engineering: Soil-Structure Interaction using Computer and Material Models covers computer and analytical methods for a number of geotechnical problems. It introduces the main factors important to the application of computer

Soil Mechanics in Engineering Practice *Wharton Press*

This book constitutes the definitive handbook to soil mechanics, covering in great detail such topics as: Properties of Soils, Hydraulic and Mechanical Properties of Soils, Drainage of Soils, Plastic Equilibrium in Soils, Earth Stability and Pressure of Slopes, Foundations, etc. A valuable compendium for those interested in soil mechanics, this antiquarian text contains a wealth of information still very much valuable to engineers today. Karl von Terzaghi (1883 1963) was a Czech geologist and Civil engineer, hailed as the "father of soil mechanics." This book has been elected for republication due to its educational value and is proudly republished here with an introductory biography of the author."

Geotechnical Engineer's Portable Handbook *McGraw Hill Professional*

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.

Advanced Foundation Engineering *Geotechnical Engineering*

Foundation Design

Theory and Practice *John Wiley & Sons*

In Foundation Design: Theory and Practice, Professor N. S. V. Kameswara Rao covers the key aspects of the subject, including principles of testing, interpretation, analysis, soil-structure interaction modeling, construction guidelines, and applications to rational design. Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own. Throughout the book the emphasis is on practical application, training readers in actual design procedures using the latest codes and standards in use throughout the world. Presents updated design procedures in light of revised codes and standards, covering: American Concrete Institute (ACI) codes Eurocode 7 Other British Standard-based codes including Indian codes Provides background materials for easy understanding of the topics, such as: Code provisions for reinforced concrete Pile design and construction Machine foundations and construction practices Tests for obtaining the design parameters Features subjects not covered in other foundation design texts: Soil-structure interaction approaches using analytical, numerical, and finite element methods Analysis and design of circular and annular foundations Analysis and design of piles and groups subjected to general loads and movements Contains worked out examples to illustrate the analysis and design Provides several problems for practice at the end of each chapter Lecture materials for instructors available on the book's companion website Foundation Design is designed for graduate students in civil engineering and geotechnical engineering. The book is also ideal for advanced undergraduate students, contractors, builders, developers, heavy machine manufacturers, and power plant engineers. Students in mechanical engineering will find the chapter on machine foundations helpful for structural engineering applications. Companion website for instructor resources: www.wiley.com/go/rao

Structural Steel Design Data Manual *McGraw-Hill Companies*

Solutions Manual to Accompany Structural Steel Design

Moral Sentiments and Material Interests

The Foundations of Cooperation in Economic Life *MIT Press*

Moral Sentiments and Material Interests presents an innovative synthesis of research in different disciplines to argue that cooperation stems not from the stereotypical selfish agent acting out of disguised self-interest but from the presence of "strong reciprocators" in a social group. Presenting an overview of research in economics, anthropology, evolutionary and human biology, social psychology, and sociology, the book deals with both the theoretical foundations and the policy implications of this explanation for cooperation. Chapter authors in the remaining parts of the book discuss the behavioral ecology of cooperation in humans and nonhuman primates, modeling and testing strong reciprocity in economic scenarios, and reciprocity and social policy. The evidence for strong reciprocity in the book includes experiments using the famous Ultimatum Game (in which two players must agree on how to split a certain amount of money or they both get nothing.)

Seismic Analysis of Structures *John Wiley & Sons*

While numerous books have been written on earthquakes, earthquake resistance design, and seismic analysis and design of structures, none have been tailored for advanced students and practitioners, and those who would like to have most of the important aspects of seismic analysis in one place. With this book, readers will gain proficiencies in the following: fundamentals of seismology that all structural engineers must know; various forms of seismic inputs; different types of seismic analysis like, time and frequency domain analyses, spectral analysis of structures for random ground motion, response spectrum method of analysis; equivalent lateral load analysis as given in earthquake codes; inelastic response analysis and the concept of ductility; ground response analysis and seismic soil structure interaction; seismic reliability analysis of structures; and control of seismic response of structures. Provides comprehensive coverage, from seismology to seismic control Contains useful empirical equations often required in the seismic analysis of structures Outlines explicit steps for seismic analysis of MDOF systems with multi support excitations Works through solved problems to illustrate different concepts Makes use of MATLAB, SAP2000 and ABAQUAS in solving example problems of the book Provides numerous exercise problems to aid understanding of the subject As one of the first books to present such a comprehensive treatment of the topic, Seismic Analysis of Structures is ideal for postgraduates and researchers in Earthquake Engineering, Structural Dynamics, and Geotechnical Earthquake Engineering. Developed for classroom use, the book can also be used for advanced undergraduate students planning for a career or further study in the subject area. The book will also better equip structural engineering consultants and practicing engineers in the use of standard software for seismic analysis of buildings, bridges, dams, and towers. Lecture materials for instructors available at www.wiley.com/go/dattaseismic

Steel Design *Cengage Learning*

STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate

courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Excel Data Analysis

Modeling and Simulation *Springer*

This book offers a comprehensive and readable introduction to modern business and data analytics. It is based on the use of Excel, a tool that virtually all students and professionals have access to. The explanations are focused on understanding the techniques and their proper application, and are supplemented by a wealth of in-chapter and end-of-chapter exercises. In addition to the general statistical methods, the book also includes Monte Carlo simulation and optimization. The second edition has been thoroughly revised: new topics, exercises and examples have been added, and the readability has been further improved. The book is primarily intended for students in business, economics and government, as well as professionals, who need a more rigorous introduction to business and data analytics – yet also need to learn the topic quickly and without overly academic explanations.

The Righteous Mind

Why Good People are Divided by Politics and Religion *Vintage*

Presents a groundbreaking investigation into the origins of morality at the core of religion and politics, offering scholarly insight into the motivations behind cultural clashes that are polarizing America.

Solutions Manual to Accompany Foundation Analysis and Design

Approaches to Class Analysis *Cambridge University Press*

Few themes have been as central to sociology as 'class' and yet class remains a perpetually contested idea. Sociologists disagree not only on how best to define the concept of class but on its general role in social theory and indeed on its continued relevance to the sociological analysis of contemporary society. Some people believe that classes have largely dissolved in contemporary societies; others believe class remains one of the fundamental forms of social inequality and social power. Some see class as a narrow economic phenomenon whilst others adopt an expansive conception that includes cultural dimensions as well as economic conditions. This 2005 book explores the theoretical foundations of six major perspectives of class with each chapter written by an expert in the field. It concludes with a conceptual map of these alternative approaches by posing the question: 'If class is the answer, what is the question?'

Soils and Foundations

"This introductory text offers a practical approach to soil mechanics and foundations, with application to real-world design solutions for civil technology and engineering. This material is presented in a clear, direct style with just enough mathematics to support the design concepts. Several new illustrations have been added to enhance student comprehension."--BOOK JACKET.

Aquifer Testing

Design and Analysis of Pumping and Slug Tests *CRC Press*

New! A practical, easy-to-use reference for the design and analysis of groundwater pumping and slug tests Aquifer Testing: Design and Analysis of Pumping and Slug Tests is a complete design and analysis reference emphasizing practical solutions for engineers, scientists, consultants, and students knowledgeable in basic ground water theory. The book discusses such models as steady-state, transient flow with constant discharge, slug injection or withdrawal, and step discharge. This valuable book is an expansion on our best seller Groundwater Pumping Tests: Design and Analysis (Walton 1987). Part I contains general information about pumping tests, including how to design a pumping test, select an appropriate model, correct data, and analyze results. Part II is devoted to aquifer models and features hydrogeologic conditions, flow and geometry assumptions, governing differential equations, initial and boundary conditions, and analytical solutions for different models. BASIC coding for computer programs from which type curves may be developed and drawdown predicted are included in an appendix and on diskettes included in the book.

Geotechnical Engineering Investigation Handbook, Second Edition *CRC Press*

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.

Slope Analysis *Elsevier*

Slope Analysis summarizes the fundamental principles of slope analysis. It explores not only the similarities but also the differences in rock slopes and soil slopes, and it presents alternative methods of analysis, new concepts, and new approaches to analysis. The book introduces both natural and man-made slopes, the nature of soils and rocks, geomorphology, geology, and the aims of slope analysis. These topics are followed by chapters about stress and strain, shear strength of rock and soils, and progressive failure of slopes. This book also presents limit equilibrium methods I and II, which are the planar failure surfaces and slip surfaces of arbitrary shape, respectively. It also includes stress analysis and slope stability, natural slope analysis, and a brief review on plasticity and shear band analysis. Before presenting its conclusions, the book discusses special aspects of slope analysis, such as earthquake analysis, pseudo-static analysis, dynamic analysis, and anisotropy, in addition to Newmark’s approach.

Fundamental Concepts of Earthquake Engineering *CRC Press*

While successfully preventing earthquakes may still be beyond the capacity of modern engineering, the ability to mitigate damages with strong structural designs and other mitigation measures are well within the purview of science. Fundamental Concepts of Earthquake Engineering presents the concepts, procedures, and code provisions that are current

Fahrenheit 451

A fireman in charge of burning books meets a revolutionary school teacher who dares to read. Depicts a future world in which all printed reading material is burned.

Transforming the Workforce for Children Birth Through Age 8

A Unifying Foundation *National Academies Press*

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Foundation Engineering Handbook *Springer Science & Business Media*

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.

Structural Foundations Manual for Low-Rise Buildings *CRC Press*

This book provides practical and buildable solutions for the design of foundations for housing and other low-rise buildings, especially those on abnormal or poor ground. A wealth of expert information and advice is brought together dealing with the key aspects a designer must consider in order to achieve effective and economic foundation designs. This second edition of Structural Foundations Manual for Low-Rise Buildings has been completely updated in line with the new government guidelines on contaminated land and brown-field sites. The book includes well-detailed design solutions and calculations, actual case histories, illustrations, design charts and check lists, making it a user-friendly reference for contractors,

structural engineers, architects and students who have to deal with foundations for low-rise buildings on sites with difficult ground conditions.

Introduction to Geotechnical Engineering *Cengage Learning*
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.

Ground Improvement Techniques (PB) *Firewall Media*

Foundation Analysis and Design

Study Manual

Gerontology Nursing Case Studies, Second Edition

100+ Narratives for Learning *Springer Publishing Company*
Praise for the first edition: “This is an excellent teaching guide and resource manual for instructors, gerontological nursing students, and practicing

nurses and social workers who wish to learn more about geriatric concerns and care. It will be kept by nursing students long after they graduate as a guide to resources that will be valuable throughout their nursing careers. As a home care nurse working mainly with the geriatric community, I found the resources helpful in my practice. As an instructor, I found the book to be a very useful guide for teaching geriatrics.” Score: 90, 4 Stars —Doody’s Medical Reviews “[This] is a unique volume that effectively addresses the lack of gerontology case studies for use with undergraduate nursing students. Case studies are a pedagogically powerful approach to active learning that offer opportunities to apply content to clinical practice.” —The Gerontologist “The case narrative approach of this book promotes active learning that is more meaningful to students (and practicing nurses) and more likely to increase the transfer of evidence into practice. An excellent resource for faculty (staff educators) to facilitate critical learning skills.” —Liz Capezuti, PhD, RN, FAAN Dr. John W. Rowe Professor in Successful Aging Co-Director, Hartford Institute for Geriatric Nursing New York University College of Nursing Vivid case examples help guide nurses in developing appropriate interventions that include complementary and alternative health therapies and provide a basis for evaluating outcomes. Exercises interspersed throughout each case study include numerous open-ended and multiple-choice questions to facilitate learning and critical thinking. The text is unique in that some of the presented cases focus on psychosocial issues such as gambling addiction, hoarding behavior, emergency preparedness, and long-distance caregiving. Cases also depict geriatric clients who are living healthy, productive lives to counter myths and negative attitudes about older adults. Scenarios demonstrating ethical dilemmas prepare students to appropriately respond to “gray area” situations. The text is geared for AACN and NLN accreditation and is organized according to the needs of actual clinical settings. With cases that take place in the home and community or within primary, acute, and long-term care facilities, this book will be useful for courses specific to gerontology nursing or across any nursing curriculum. New to the Second Edition: A completely new section of Aging Issues Affecting the Family New cases addressing health care disparities, aging in place, and prevention of catheter-associated urinary tract infection Additional contemporary case studies The addition of Quality for Safety in Nursing Education (QSEN) initiatives A greater focus on prioritization and delegation of client’s needs infused throughout exercises