

Principles Of Geotechnical Engineering

Principles of Soil Dynamics Reliability of Geotechnical Structures in ISO2394 Principles of Foundation Engineering Principles of Geotechnical Engineering Geotechnical Engineering Soil Mechanics Laboratory Manual Fundamentals of Ground Engineering Principles of Geotechnical Engineering Principles of Geotechnical Engineering Fundamentals of Geotechnical Engineering Geotechnical Engineer's Portable Handbook Fundamentals of Geoenvironmental Engineering Introduction to Soil Mechanics Fundamentals of Geotechnical Engineering Introduction to Geotechnical Engineering Geotechnical Engineering Handbook Rock Mechanics Principles of Geotechnical Engineering, SI Edition Geotechnical Engineering Steel Design Principles of Foundation Engineering Soil Mechanics Lab Manual, 2nd Edition Advanced Building Materials Solutions Manual for Principles of Geotechnical Engineering Fundamentals of Hydraulic Engineering Systems Geotechnical Engineering Calculations and Rules of Thumb Core Concepts of Geotechnical Engineering (Ice Textbook) Series Geotechnical Engineering Earthquake Geotechnical Engineering Principles of Geotechnical Engineering, 2nd Edition Soil Mechanics and Foundations Principles of Geotechnical Engineering - SI Version Shallow Foundations Principles of Geotechnical Engineering The Measurement of Soil Properties in the Triaxial Test Geotechnical Engineering Principles of Geotechnical Engineering Geotechnical Engineering ICE Manual of Geotechnical Engineering: Geotechnical engineering principles, problematic soils and site investigation Principles Of Geotechnical Engineering

Principles of Soil Dynamics

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.

Reliability of Geotechnical Structures in ISO2394

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.

Principles of Foundation Engineering

Principles of Geotechnical Engineering

Originally published in the fall of 1983, Braja M. Das' Seventh Edition of PRINCIPLES OF FOUNDATION ENGINEERING continues to maintain the careful balance of current research and practical field applications that has made it the leading text in foundation engineering courses. Featuring a wealth of worked-out examples and figures that help students with theory and problem-solving skills, the book introduces civil engineering students to the fundamental concepts and application of foundation analysis design. Throughout, Das emphasizes the judgment needed to properly apply the theories and analysis to the evaluation of soils and foundation design as well as the need for field experience. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineering

Established as a standard textbook for students of geotechnical engineering, this second edition of Geotechnical Engineering provides a solid grounding in the mechanics of soils and soil-structure interaction. Renato Lancellotta gives a clear presentation of the fundamental principles of soil mechanics and demonstrates how these principles are

Soil Mechanics Laboratory Manual

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.

Fundamentals of Ground Engineering

Principles of 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.

Principles of Geotechnical Engineering

This book contains the full papers on which the invited lectures of the 4th International Conference on Geotechnical Earthquake Engineering (4ICEGE) were based. The conference was held in Thessaloniki, Greece, from 25 to 28 June, 2007. The papers offer a comprehensive overview of the progress achieved in soil dynamics and geotechnical earthquake engineering, examine ongoing and unresolved issues, and discuss ideas for the future.

Fundamentals of Geotechnical Engineering

Intended as an introductory text in soil mechanics, the seventh 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. PRINCIPLES OF GEOTECHNICAL ENGINEERING contains more figures and worked out problems than any other text on the market and provides the background information needed to support study in later design-oriented courses or in professional practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineer's Portable Handbook

Fundamentals of Geoenvironmental Engineering

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

Introduction to Soil Mechanics

Now in its sixth edition, Soil Mechanics Laboratory Manual is designed for the junior-level soil mechanics/geotechnical engineering laboratory course in civil engineering programs. It includes eighteen laboratory procedures that cover the essential properties of soils and their behavior under stress and strain, as well as explanations, procedures, sample calculations, and completed and blank data sheets. Written by Braja M. Das, respected author of market-leading texts in geotechnical and foundation engineering, this unique manual provides a detailed discussion of standard soil classification systems used by engineers: the AASHTO Classification System and the Unified Soil Classification System, which both conform to recent ASTM specifications. To improve ease and accessibility of use, this new edition includes not only the stand-alone version of the Soil Mechanics Laboratory Test software but also ready-made Microsoft ExcelRG templates designed to perform the same calculations. With the convenience of point and click data entry, these interactive programs can be used to collect, organize, and evaluate data for each of the book's eighteen labs. The resulting tables can be printed with their corresponding graphs, creating easily generated reports that display and analyze data obtained from the manual's laboratory tests. FeaturesBL Includes sample calculations and graphs relevant to each laboratory testBL Supplies blank tables (that accompany each test) for laboratory use and report preparationBL Contains a complete chapter on soil classification (Chapter 9)BL Provides references and three useful appendices: Appendix A: Weight-Volume Relationships Appendix B: Data Sheets for Laboratory Experiments Appendix C: Data Sheets for Preparation of Laboratory Reports

Fundamentals of Geotechnical Engineering

Fundamentals of Geoenvironmental Engineering: Understanding Soil, Water, and Pollutant Interaction and Transport examines soil-water-pollutant interaction, including physico-chemical processes that occur when soil is exposed to various contaminants. Soil characteristics relevant to remedial techniques are explored, providing foundations for the correct process selection. Built upon the authors' extensive experience in research and practice, the book updates and expands the content to include current processes and pollutants. The book discusses propagation of soil pollution and soil characteristics relevant to remedial techniques. Practicing geotechnical and environmental engineers can apply the theory and case studies in the book directly to current projects. The book first discusses the stages of economic development and their connections to the sustainability of the environment. Subsequent chapters cover waste and its management, soil systems, soil-water and soil-pollutant interactions, subsurface transport of pollutants, role of groundwater, nano-, micro- and biologic pollutants, soil characteristics that impact pollution diffusion, and potential remediation processes like mechanical, electric, magnetic, hydraulic and dielectric permittivity

of soils. Presents a clear understanding of the propagation of pollutants in soils
Identifies the physico-chemical processes in soils
Covers emerging pollutants (nano-, micro- and biologic contaminants)
Features in-depth coverage of hydraulic, electrical, magnetic and dielectric permittivity characteristics of soils and their impact on remedial technologies

Introduction to Geotechnical Engineering

Master the Latest Developments in Soil Testing and New Applications of Geotechnical Engineering
Geotechnical Engineering: Principles and Practices offers students and practicing engineers a concise, easy-to-understand approach to the principles and methods of soil and geotechnical engineering. This updated classic builds from basic principles of soil mechanics and applies them to new topics, including mechanically stabilized earth (MSE), and intermediate foundations. This Fifth Edition features: Over 400 detailed illustrations and photographs
Unique background material on the geological, pedological, and mineralogical aspects of soils with emphasis on clay mineralogy, soil structure, and expansive and collapsible soils. New coverage of mechanically stabilized earth (MSE); intermediate foundations; in-situ soil testing; statistical analysis of data; "FORE," a scientific method for analyzing settlement; writing the geotechnical report; and the geotechnical engineer as a sleuth and expert witness. Get Quick Access to Every Soil and Geotechnical Engineering Topic • Igneous Rocks as Ultimate Sources for Soils • The Soil Profile • Soil Minerals • Particle Size and Gradation • Soil Fabric and Soil Structure • Soil Density and Unit Weight • Soil Water • Soil Consistency and Engineering Classification • Compaction • Seepage • Stress Distribution • Settlement • Shear Strength • Lateral Stress and Retaining Walls • MSE Walls and Soil Nailing • Slope Stability, Landslides, Embankments, and Earth Dams • Bearing Capacity of Shallow Foundations • Deep Foundations • Intermediate Foundations • Loads on Pipes • In-Situ Testing • Introduction to Soil Dynamics • The Geotechnical Report

Geotechnical Engineering Handbook

Readers gain a valuable overview of soil properties and mechanics together with coverage of field practices and basic engineering procedures with Das and Sobhan's PRINCIPLES OF GEOTECHNICAL ENGINEERING, SI EDITION, 9E. This introduction to geotechnical engineering forms an important foundation for future civil engineers. This book provides critical background knowledge readers need to support any advanced study in design as well as to prepare them for professional practice. The authors ensure a practical and application-oriented approach to the subject by incorporating a wealth of comprehensive discussions and detailed explanations. Readers find more figures and worked-out problems than any other book for the course to ensure understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Rock Mechanics

The latest 4th edition of the international standard on the principles of reliability

for load bearing structures (ISO2394:2015) includes a new Annex D dedicated to the reliability of geotechnical structures. The emphasis in Annex D is to identify and characterize critical elements of the geotechnical reliability-based design process. This book contains a wealth of data and information to assist geotechnical engineers with the implementation of semi-probabilistic or full probabilistic design approaches within the context of established geotechnical knowledge, principles, and experience. The introduction to the book presents an overview on how reliability can play a complementary role within prevailing norms in geotechnical practice to address situations where some measured data and/or past experience exist for limited site-specific data to be supplemented by both objective regional data and subjective judgment derived from comparable sites elsewhere. The principles of reliability as presented in ISO2394:2015 provides the common basis for harmonization of structural and geotechnical design. The balance of the chapters describes the uncertainty representation of geotechnical design parameters, the statistical characterization of multivariate geotechnical data and model factors, semi-probabilistic and direct probability-based design methods in accordance to the outline of Annex D. This book elaborates and reinforces the goal of Annex D to advance geotechnical reliability-based design with geotechnical needs at the forefront while complying with the general principles of reliability given by ISO2394:2015. It serves as a supplementary reference to Annex D and it is a must-read for designing geotechnical structures in compliance with ISO2394:2015.

Principles of Geotechnical Engineering, SI Edition

Geotechnical Engineering

PRINCIPLES OF SOIL DYNAMICS is an unparalleled reference book designed for an introductory course on Soil Dynamics. Authors Braja M. Das, best selling authority on Geotechnical Engineering, and Ramana V. Gunturi, Dean of the Civil Engineering Department at the India Institute of Technology in New Delhi, present a well revised update of this already well established text. The primary focus of the book is on the applications of soil dynamics and not on the underlying principles. The material covered includes the fundamentals of soil dynamics, dynamic soil properties, foundation vibration, soil liquefaction, pile foundation and slope stability. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Steel Design

Fundamentals of Hydraulic Engineering Systems, Fourth Edition is a very useful reference for practicing engineers who want to review basic principles and their applications in hydraulic engineering systems. This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems. The author examines the most common topics in hydraulics, including hydrostatics, pipe flow, pipelines, pipe networks, pumps, open channel flow, hydraulic structures, water measurement devices, and hydraulic similitude and model studies. Chapters dedicated to groundwater, deterministic hydrology,

and statistical hydrology make this text ideal for courses designed to cover hydraulics and hydrology in one semester.

Principles of Foundation Engineering

The First Comprehensive Guide to Shallow Foundations Over the last few decades, the bearing capacity of shallow foundations has been studied more thoroughly than any other subject in geotechnical engineering. Until now, however, most references on foundation engineering devoted only a single chapter to the subject. *Shallow Foundations: Bearing Capacity and Settlement* provides what many engineers have been waiting for—a concise, comprehensive reference containing all the relevant material on shallow foundation behavior under static and dynamic loads related to their ultimate bearing capacity, allowable bearing capacity, and settlement. Estimation Techniques, Earthquake Loading, and Experimental Results The author—a renowned expert—presents the various theories developed during the past fifty years for estimating the ultimate bearing capacity of shallow foundations under various types of loading and subsoil conditions. He discusses the principles of estimating foundation settlement and for estimating the stress increase in a soil mass supporting a foundation. Earthquake loading and its effects on ultimate bearing capacity have received considerable attention in recent years, and the author provides an overview of these developments. He also offers details regarding permanent foundation settlement caused by cyclic and transient loading—details derived from laboratory and field experimental observations. Progress in Soil Reinforcement Researchers have made steady progress in evaluating the potential of soil reinforcement to reduce settlement and increase ultimate and allowable bearing capacities of shallow foundations. This book provides an entire chapter on the subject, including discussions of the materials used: galvanized steel strips, geotextile, and geogrid. The presentation of *Shallow Foundations* is clear, concise, and filled with examples and exercises that illustrate the theory. This book stands alone as an in-depth, authoritative guide to shallow foundation bearing capacities and the effects of different soil types, slopes, settlement, reinforcement, and seismic activity. Researchers, students, and practicing engineers will all welcome its addition to their reference shelves.

Soil Mechanics Lab Manual, 2nd Edition

Geotechnical Engineering: Principles and Practices, 2/e, is ideal for junior-level soil mechanics or introductory geotechnical engineering courses. This introductory geotechnical engineering textbook explores both the principles of soil mechanics and their application to engineering practice. It offers a rigorous, yet accessible and easy-to-read approach, as well as technical depth and an emphasis on understanding the physical basis for soil behavior. The second edition has been revised to include updated content and many new problems and exercises, as well as to reflect feedback from reviewers and the authors' own experiences.

Advanced Building Materials

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.

Solutions Manual for Principles of Geotechnical Engineering

Fundamentals of Ground Engineering is an unconventional study guide that serves up the key principles, theories, definitions, and analyses of geotechnical engineering in bite-sized pieces. This book contains brief—one or two pages per topic—snippets of information covering the geotechnical engineering component of a typical undergraduate course in civil engineering as well as some topics for advanced courses. Written in note form, it summarizes the basic principles and theories of soil mechanics, the procedures for creating a geotechnical model, and the common analyses for slopes, foundations, and walls. Puts the mechanics into soil mechanics Presents information that is simple to use—structured around diagrams and formulae with few words Explains detailed analyses given in the longer standard texts A short, easily read summary of the basic theories and routine analyses of ground engineering, Fundamentals of Ground Engineering incorporates plenty of diagrams and concentrated data without going into detailed explanations. This text is an ideal reference for students, practicing civil engineers—senior and junior—and by engineering geologists.

Fundamentals of Hydraulic Engineering Systems

Intended as an introductory text in soil mechanics, the seventh 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. PRINCIPLES OF GEOTECHNICAL ENGINEERING contains more figures and worked out problems than any other text on the market and provides the background information needed to support study in later design-oriented courses or in professional practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineering Calculations and Rules of Thumb

This set comprises the following five titles: ICE Manual of Project Management; ICE Manual of Geotechnical Engineering; ICE Manual of Highway Design and Management; ICE Manual of Health and Safety in Construction and ICE Manual of Construction Materials.

Core Concepts of Geotechnical Engineering (Ice Textbook) Series

Fundamentals of Geotechnical Engineering combines the essential components of Braja Das' market leading texts, Principles of Geotechnical Engineering and

Principles of Foundation Engineering. The text includes the fundamental concepts of soil mechanics as well as foundation engineering without becoming cluttered with excessive details and alternatives. Foundations. features a wealth of worked out examples, as well as figures to help students with theory and problem solving skills. Das maintains the careful balance of current research and practical field applications that has made his books the 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

Produced by the Institution of Civil Engineers, ICE Textbooks offer clear, concise and practical information on the major principles of civil and structural engineering. They are an indispensable companion to undergraduate audiences

Earthquake Geotechnical Engineering

This collection of papers, which was subjected to strict peer-review by 2 to 4 expert referees, aims to collect together the latest advances in, and applications of, traditional constructional materials, advanced constructional materials and green building materials. It cannot fail to suggest new ideas and strategies to be tried in this field.

Principles of Geotechnical Engineering, 2nd Edition

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.

Soil Mechanics and Foundations

Intended as an introductory text in soil mechanics, the seventh 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. PRINCIPLES OF GEOTECHNICAL ENGINEERING contains more figures and worked out problems than any other text on the market and provides the background information needed to support study in later design-oriented courses or in professional practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Principles of Geotechnical Engineering - SI Version

Braja M. Das' PRINCIPLES OF GEOTECHNICAL ENGINEERING provides civil engineering students and professionals with an overview of soil properties and mechanics, combined with a study of field practices and basic soil engineering procedures. Through four editions, this book has distinguished itself by its exceptionally clear theoretical explanations, realistic worked examples, thorough discussions of field testing methods, and extensive problem sets, making this book a leader in its field. Das's goal in revising this best-seller has been to reorganize and revise existing chapters while incorporating the most up-to-date information found in the current literature. Additionally, Das has added numerous case studies as well as new introductory material on the geological side of geotechnical engineering, including coverage of soil formation.

Shallow Foundations

Rock mechanics is a multidisciplinary subject combining geology, geophysics, and engineering and applying the principles of mechanics to study the engineering behavior of the rock mass. With wide application, a solid grasp of this topic is invaluable to anyone studying or working in civil, mining, petroleum, and geological engineering. Rock Mechani

Principles of Geotechnical Engineering

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.

The Measurement of Soil Properties in the Triaxial Test

Geotechnical Engineering

Principles of Geotechnical Engineering

Gain a solid understanding of soil mechanics and soil properties as Das' PRINCIPLES OF GEOTECHNICAL ENGINEERING, 10th Edition introduces these topics together with coverage of the latest field practices and basic civil engineering procedures. This book provides the important foundation you need for future design-oriented courses as well as professional practice. Updates address seepage, vertical stress in soil mass, lateral earth pressure and earthquake forces, elastic settlement, shear strength of soil, unit weights of soil and plasticity. This practical approach combines comprehensive discussions and detailed explanations with almost 200 new or updated example problems to help ensure your understanding.

Expanded and updated end-of-chapter problems provide opportunities to apply your knowledge. This edition also offers more figures and worked-out problems than any other book in the market to further your skills and understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineering

Soil Mechanics Lab Manual prepares readers to enter the field with a collection of the most common soil mechanics tests. The procedures for all of these tests are written in accordance with applicable American Society for Testing and Materials (ASTM) standards. Video demonstrations for each experiment available on the website prepare readers before going into the lab, so they know what to expect and will be able to complete the tests with more confidence and efficiency. Laboratory exercises and data sheets for each test are included in the Soil Mechanics Lab Manual.

ICE Manual of Geotechnical Engineering: Geotechnical engineering principles, problematic soils and site investigation

A coverage of the design process via real world case studies and design problems are detailed in this text. A new chapter "Spreadsheet Applications For Geotechnical Engineering" by Thomas F. Wolff, instructs the student how to make use of spreadsheets in the theories of foundation engineering.

Principles Of Geotechnical Engineering

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.

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