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*How Does Soil Behave and Why
Does It Behave That Way? Soil
Mechanics Fundamentals and*

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Applications, Second Edition effectively explores the nature of soil, explains the principles of soil mechanics, and examines soil as an engineering material. This latest edition includes all the fundamental concepts

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*of soil mechanics, as well
as an introduction to
Introducing the first
integrated coverage of
sedimentary and residual
soil engineering Despite its
prevalence in under-
developed parts of the*

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United States and most tropical and sub-tropical countries, residual soil is often characterized as a mere extension of conventional soil mechanics in many textbooks. Now, with the rapid growth of

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construction in these regions, it is essential to gain a fuller understanding of residual soils and their properties—one that's based on an integrated approach to the study of residual and sedimentary soils. One text

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puts this understanding well within reach: Fundamentals of Soil Mechanics for Sedimentary and Residual Soils. The first resource to provide equal treatment of both residual and sedimentary soils and their

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unique engineering properties, this skill-building guide offers: A concise introduction to basic soil mechanics, stress-strain behavior, testing, and design In-depth coverage that spans the full scope of

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soil engineering, from bearing capacity and foundation design to the stability of slopes A focus on concepts and principles rather than methods, helping you avoid idealized versions of soil behavior and

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*maintain a design approach
that is consistent with real
soils of the natural world
An abundance of worked
problems throughout,
demonstrating in some cases
that conventional design
techniques applicable to*

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*sedimentary soils are not
valid for residual soils
Numerous end-of-chapter
exercises supported by an
online solutions manual Full
chapter-ending references
Taken together, Fundamentals
of Soil Mechanics for*

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Sedimentary and Residual Soils is a comprehensive, balanced soil engineering sourcebook that will prove indispensable for practitioners and students in civil engineering, geotechnical engineering,

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*structural engineering, and
geology.*

*"The proposed book focuses
on the principles and design
of ground improvement
technologies"--*

*"Intended for use in the
first of a two course*

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sequence in geotechnical engineering usually taught to third- and fourth-year undergraduate civil engineering students. An Introduction to Geotechnical Engineering offers a descriptive, elementary

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*introduction to geotechnical
engineering with
applications to civil
engineering
practice.* "--Publisher's
website.

*Concepts and Applications,
Second Edition*

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*Fundamentals of Ground
Engineering
Principles and Practices of
Soil Mechanics and
Foundation Engineering
Soil Mechanics
Soil Behaviour and Critical
State Soil Mechanics*

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Budhu presents the basic concepts and fundamental principles that engineers must know to understand the methods utilized in foundation design by exploring the values and limitations of popular methods of analyses in foundation engineering.

The definitive guide to unsaturated soil—

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*from the world's experts on the subject
This book builds upon and substantially
updates Fredlund and Rahardjo's
publication, Soil Mechanics for
Unsaturated Soils, the current standard
in the field of unsaturated soils. It
provides readers with more thorough
coverage of the state of the art of*

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unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved. Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book, this new publication places greater emphasis on the importance of the "soil-water

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characteristic curve" in solving practical engineering problems, as well as the quantification of thermal and moisture boundary conditions based on the use of weather data. Topics covered include: Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for

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*Unsaturated Soils Measurement and
Estimation of State Variables Soil-Water
Characteristic Curves for Unsaturated
Soils Ground Surface Moisture Flux
Boundary Conditions Theory of Water
Flow through Unsaturated Soils Solving
Saturated/Unsaturated Water Flow
Problems Air Flow through Unsaturated*

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*Soils Heat Flow Analysis for Unsaturated
Soils Shear Strength of Unsaturated Soils
Shear Strength Applications in Plastic
and Limit Equilibrium Stress-
Deformation Analysis for Unsaturated
Soils Solving Stress-Deformation
Problems with Unsaturated Soils
Compressibility and Pore Pressure*

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*Parameters Consolidation and Swelling
Processes in Unsaturated Soils
Unsaturated Soil Mechanics in
Engineering Practice is essential reading
for geotechnical engineers, civil
engineers, and undergraduate- and
graduate-level civil engineering students
with a focus on soil mechanics.*

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The aim of this book is to encourage students to develop an understanding of the fundamentals of soil mechanics. It builds a robust and adaptable framework of ideas to support and accommodate the more complex problems and analytical procedures that confront the practising geotechnical engineer. Soil Mechanics:

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Concepts and Applications covers the soil mechanics and geotechnical engineering topics typically included in university courses in civil engineering and related subjects. Physical rather than mathematical arguments are used in the core sections wherever possible. New features for the second edition include:

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an accompanying website containing the lecturers solutions manual; a revised chapter on soil strength and soil behaviour separating the basic and more advanced material to aid understanding; a major new section on shallow foundations subject to combined vertical, horizontal and moment loading; revisions

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to the material on retaining walls, foundations and filter design to account for new research findings and bring it into line with the design philosophy espoused by EC7. More than 50 worked examples including case histories Learning objectives, key points and example questions

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This book presents articles covering a wide spectrum of topics in geotechnical engineering, including properties of soils, unsaturated soil mechanics, ground improvement, liquefaction and seismic studies, soil-structure interaction and stability analysis of man-made and natural slopes. The contributing authors

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are renowned researchers in their respective fields, which include soft ground improvement, seismic response of retaining structure using soil-structure Interaction (SSI) principles, and unsaturated soils. Based on keynote addresses and invited talks presented at the Indian Geotechnical Conference

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2016, this book will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering.

Fundamentals of Soil Behavior

Selected Topics

*Advanced Unsaturated Soil Mechanics
and Engineering*

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Soils and Foundations

*Introduction to Geotechnical
Engineering*

Analytical and comprehensive, this state-of-the-art book, examines the mechanics and engineering of unsaturated soils, as well as

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explaining the laboratory and field testing and research that are the logical basis of this modern approach to safe construction in these hazardous geomaterials; putting them into a logical framework for civil engineering and

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design. The book: illustrates the importance of state-dependent soil-water characteristic curves highlights modern soil testing of unsaturated soil behaviour, including accurate measurement of total volume changes and the

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measurement of anisotropic soil stiffness at very small strains introduces an advanced state-dependent elasto-plastic constitutive model for both saturated and unsaturated soil demonstrates the power of numerical analysis which

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is at the heart of modern soil mechanics studies and simulates the behaviour of loose fills from unsaturated to saturated states; explains the difference between strain-softening and static liquefaction, and describes real

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applications in unsaturated soil
slope engineering includes purpose-
designed field trials to capture the
effects of two independent stress
variables, and reports
comprehensive measurements of soil
suction, water contents, stress

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changes and ground deformations in both bare and grassed slopes introduces a new conjunctive surface and subsurface transient flow model for realistically analysing rainfall infiltration in unsaturated soil slopes, and

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illustrates the importance of the flow model in slope engineering.

Including constitutive and numerical modelling, this volume will interest students and professionals studying or working in the areas of geotechnical engineering and the

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built environment.

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

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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

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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.

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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

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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.

Written by an author with more than

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25 years of field and academic experience, Soil Improvement and Ground Modification Methods explains ground improvement technologies for converting marginal soil into soil that will support all types of structures. Soil

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improvement is the alteration of any property of a soil to improve its engineering performance. Some sort of soil improvement must happen on every construction site. This combined with rapid urbanization and the industrial growth presents a

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huge dilemma to providing a solid structure at a competitive price. The perfect guide for new or practicing engineers, this reference covers projects involving soil stabilization and soil admixtures, including utilization of industrial waste and by-

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products, commercially available soil admixtures, conventional soil improvement techniques, and state-of-the-art testing methods.

Conventional soil improvement techniques and state-of-the-art testing methods Methods for

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mitigating or removing the risk of liquefaction in the event of major vibrations Structural elements for stabilization of new or existing construction industrial waste/by-products, commercially available soil Innovative techniques for

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drainage, filtration, dewatering, stabilization of waste, and contaminant control and removal
Fundamentals of Ground Engineering is an unconventional study guide that serves up the key principles, theories, definitions, and

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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

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Solutions Manual

Essentials of Soil Mechanics and
Foundations: Pearson New
International Edition

Foundation Analysis and Design

Soil Mechanics and Foundations

Soil Mechanics Fundamentals and

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Applications

This book comprises the proceedings of the international conference Shaking the Foundations of Geo-engineering Education (NUI Galway, Ireland, 4-6 July 2012), a major initiative of the International Society of

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***Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee (TC306) on Geo-engineering Education. SFGE 2012 has been carefully
The purpose of this manual is to provide guidelines for calculation of the bearing capacity of soil***

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under shallow and deep foundations supporting various types of structures and embankments. This manual is intended as a guide for determining allowable and ultimate bearing capacity. It is not intended to replace the

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judgment of the design engineer on a particular project. Principles for evaluating bearing capacity presented in this manual are applicable to numerous types of structures such as buildings and houses, towers and storage tanks, fills, embankments and dams.

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These guidelines may be helpful in determining soils that will lead to bearing capacity failure or excessive settlements for given foundations and loads.

This book is mainly intended to meet the needs of undergraduate students of Civil Engineering. In

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preparing the first edition of this book, I had two principal aims: firstly to provide the student with a description of soil behavior-and of the effects of the clay minerals and the soil water on such behavior-which was rather more detailed than is usual in an

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elementary text, and secondly to encourage him to look critically at the traditional methods of analysis and design. The latter point is important, since all such methods require certain simplifying assumptions without which no solution is generally

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possible. Serious errors in design are seldom the result of failure to understand the methods as such. They more usually arise from a failure to study and understand the geology of the site, or from attempts to apply analytical methods to problems for which

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the implicit assumptions make them unsuitable. In the design of foundations and earth structures, more than in most branches of engineering, the engineer must be continually exercising his judgment in making decisions. The analytical methods cannot

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relieve him of this responsibility but properly used, they should ensure that his judgment is based on sound knowledge and not on blind intuition. I hope that the book will prove to be of use to students when their courses are over, and help to bridge the

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awkward gap between theory and practice.

Written for university students taking first-degree courses in civil engineering, environmental and agricultural engineering, Problem Solving in Soil Mechanics stimulates problem-

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*solving learning as well as
facilitating self-teaching.
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knowledge of subject, necessary
basic information is included to
make it accessible to readers new
to the topic. Filled with worked
examples, new and advanced*

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topics and with a flexible structure that means it can be adapted for use in second, third and fourth year undergraduate courses in soil mechanics, this book is also a valuable resource for the practising professional engineer as well as

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undergraduate and postgraduate students. Primarily designed as a supplement to Soil Mechanics: Basic Concepts and Engineering Applications, this book can be used by students as an independent problem-solving text, since there are no specific

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*references to any equations or
figures in the main book.*

*Soil Mechanics Lab Manual, 2nd
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*Applied Soil Mechanics with
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Shallow Foundations
Instructor's Resource*

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Now in its sixth edition, Soil
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junior-level soil
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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

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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

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engineering, this unique manual provides a detailed discussion of standard soil classification systems used by engineers: the AASHTO Classification System and the Unified Soil

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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

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graphs relevant to each laboratory test . Supplies blank tables (that accompany each test) for laboratory use and report preparation . Contains a complete chapter on soil

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classification (Chapter 9) .
Provides references and
three useful appendices:
Appendix A: Weight-Volume
Relationships Appendix B:
Data Sheets for Laboratory
Experiments Appendix C:

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Data Sheets for Preparation
of Laboratory Reports"

Discover the principles that
support the practice! á With
its simplicity in
presentation, this book
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of soil mechanics and foundations much easier to understand! The author explains basic concepts and fundamental principles in the context of basic mechanics, physics, and

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Method to geotechnical problems Predicting soil behavior by constitutive equations that are based on experimental findings and embodied in numerical methods, such as the finite element method, is a

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significant aspect of soil mechanics. Engineers are able to solve a wide range of geotechnical engineering problems, especially inherently complex ones that resist traditional analysis. Applied Soil Mechanics with

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approach, the author
describes the general soil**

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a guide to alternative solutions and emergent methods. Dr. Helwany also has an online course based on the book available at www.geomilwaukee.com. Soil Mechanics Lab Manual prepares readers to enter the

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Modification Methods
An Introduction to**

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**Geotechnical Engineering
Shaking the Foundations of
Geo-engineering Education**

This book is intended primarily to serve the needs of the undergraduate civil engineering student and aims at the clear explanation, in adequate depth, of the fundamental principles of soil

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mechanics. The understanding of these principles is considered to be an essential foundation upon which future practical experience in soils engineering can be built. The choice of material involves an element of personal opinion but the contents of this book should cover the

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requirements of most undergraduate courses to honours level. It is assumed that the student has no prior knowledge of the subject but has a good understanding of basic mechanics. The book includes a comprehensive range of worked examples and problems set for solution

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by the student to consolidate understanding of the fundamental principles and illustrate their application in simple practical situations. The International System of Units is used throughout the book. A list of references is included at the end of each chapter as an aid to the more

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advanced study of any particular topic. It is intended also that the book will serve as a useful source of reference for the practising engineer. In the third edition no changes have been made to the aims of the book. Except for the order of two chapters being interchanged and for minor changes in

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the order of material in the chapter on consolidation theory, the basic structure of the book is unaltered.

This revised and updated edition of Advanced Soil Mechanics presents a step-by-step guide to all aspects of the subject to students, and addresses a wide range of topics in a logical and

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extensively illustrated approach, including: grain-size distribution; the nature of water in clay; consistency of cohesive soils; weight-volume relationships; soil classification systems; concepts of elasticity; equations of equilibrium. The book is illustrated with mathematical

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derivations and clear diagrams, problems and examples are provided throughout and each chapter concludes with a list of references for further in-depth review or research. Advanced Soil Mechanics is valuable not only for upper-level undergraduate and graduate level students of civil

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engineering, engineering mechanics, and soil mechanics, but also as a reference for professionals working in these fields.

This book constitutes the definitive handbook to soil mechanics, covering in great detail such topics as:

Properties of Soils, Hydraulic and

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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.

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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."

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Soils can rarely be described as ideally elastic or perfectly plastic and yet simple elastic and plastic models form the basis for the most traditional geotechnical engineering calculations. With the advent of cheap powerful computers the possibility of performing analyses based on more realistic

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models has become widely available. One of the aims of this book is to describe the basic ingredients of a family of simple elastic-plastic models of soil behaviour and to demonstrate how such models can be used in numerical analyses. Such numerical analyses are often regarded as

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mysterious black boxes but a proper appreciation of their worth requires an understanding of the numerical models on which they are based. Though the models on which this book concentrates are simple, understanding of these will indicate the ways in which more sophisticated

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models will perform.

Geotechnical Design and Practice

SOIL MECHANICS AND

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Problem Solving in Soil Mechanics

Unsaturated Soil Mechanics in

Engineering Practice

Foundations and Earth Retaining

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Structures

For all courses in soils and foundations, geotechnical engineering, soil mechanics, and foundation engineering. Ideal for beginners, Soils and Foundations presents all essential aspects of soils and foundations in as simple and direct a manner as possible.

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Filled with worked examples, step-by-step solutions, and hands-on practice problems, it emphasises design and practical applications supported by basic theory. Throughout, the authors promote learning through the extensive use of diagrams, charts, and illustrations. Coverage includes:

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engineering properties of soils: soil exploration, compaction, stabilisation, and consolidation; water in soil; subsurface stresses; settlement of structures; shear strength; shallow and deep foundations; lateral earth pressure; retaining structures, and stability analysis of slopes. This edition's

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new coverage includes Pressuremeter and Dilatometer tests, water flow characterisation with Bernoulli's Theorem, dewatering, uplift pressure on dams, and subsurface stresses caused by overlying soil masses.

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Mechanics and Foundations: Basic Geotechnics, Seventh Edition, provides a clear, detailed presentation of soil mechanics: the background and basics, the engineering properties and behavior of soil deposits, and the application of soil mechanics theories. Appropriate for soil mechanics courses in engineering,

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Written in a concise, easy-to understand manner, INTRODUCTION TO GEOTECHNICAL ENGINEERING,

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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

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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 revision of this best-selling text for

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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

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improved analysis 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.

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Increased emphasis is placed on geotextiles for retaining walls and soil nailing.

Geotechnical Modelling

Handbook of Geotechnical Investigation
and Design Tables

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Soil Mechanics in Engineering Practice

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Fundamentals of Soil Mechanics for
Sedimentary and Residual Soils
Modelling forms an
implicit part of all
engineering design but
many engineers engage in
modelling without

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consciously considering the nature, validity and consequences of the supporting assumptions. Derived from courses given to postgraduate and final year undergraduate MEng

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students, this book presents some of the models that form a part of the typical undergraduate geotechnical curriculum and describes some of the aspects of soil behaviour

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which contribute to the challenge of geotechnical modelling. Assuming a familiarity with basic soil mechanics and traditional methods of geotechnical design, this

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book is a valuable tool for students of geotechnical and structural and civil engineering as well as also being useful to practising engineers

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involved in the specification of numerical or physical geotechnical modelling.

This practical handbook of properties for soils and rock contains, in a

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concise tabular format,
the key issues relevant to
geotechnical
investigations,
assessments and designs in
common practice. In
addition, there are brief

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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.

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There is an extensive database of correlations for different applications. The book should provide a useful bridge between soil and rock mechanics theory and

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its application to practical engineering solutions. The initial chapters deal with the planning of the geotechnical investigation, the

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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

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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

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book is intended primarily for practicing geotechnical engineers working in investigation, assessment and design, but should provide a useful supplement for

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postgraduate courses.
An accessible, clear,
concise, and contemporary
course in geotechnical
engineering, this key
text: strikes a balance
between theory and

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practical applications for an introductory course in soil mechanics keeps mechanics to a minimum for the students to appreciate the background, assumptions and

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limitations of the theories discusses implications of the key ideas to provide students with an understanding of the context for their application gives a modern

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explanation of soil
behaviour is presented
particularly in soil
settlement and soil
strength offers
substantial on-line
resources to support

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undergraduates in civil engineering, construction, mining and geological engineering. Soil Mechanics Fundamentals lays a solid foundation on key principles of soil

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mechanics for application in later engineering courses as well as in engineering practice. With this textbook, students will learn how to conduct a site investigation,

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acquire an understanding of the physical and mechanical properties of soils and methods of determining them, and apply the knowledge gained to analyse and design

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earthworks, simple foundations, retaining walls and slopes. The author discusses and demonstrates contemporary ideas and methods of interpreting the physical

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and mechanical properties of soils for both fundamental knowledge and for practical applications. The chapter presentation and content is informed by modern

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theories of how students learn: Learning objectives inform students what knowledge and skills they are expected to gain from the chapter. Definitions of Key Terms are given

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which students may not have encountered previously, or may have been understood in a different context. Key Point summaries throughout emphasize the most

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important points in the material just read.

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integrated and comprehensive coverage of both introductory and advanced topics in soil mechanics. It includes: worked examples to elucidate the technical content and facilitate self-learning a convenient

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structure (the book is divided into sections), enabling it to be used throughout second, third and fourth year undergraduate courses universally applicable contents through the use of SI units throughout, frequent

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