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understanding of soil behavior fundamentals. With this text, engineering professionals as well as students can confidently determine logical and innovative solutions to challenging situations. Soil Mechanics Fundamentals and Applications-Isao Ishibashi
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New, expanded material on micro-mechanical behavior at the particulate level and its influences on engineering properties at the macro-scale A new chapter on time effects on soil deformation at different stress and strain levels New coverage of such important topics as environmental geotechnics, biological influences on soil behavior, soil fracturing, the effects of time, and geochemical problems Sets of questions and problems at the end of each chapter, a feature not available in prior editions Fundamentals of Soil Behavior, Third Edition is an essential text for graduate students and researchers as well as a peerless reference for geotechnical, environmental, and civil engineers and geologists.

Explains the factors which determine and control the engineering properties of

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soils--particularly volume change, deformation, strength and permeability. New to this edition: expanded coverage of residual and tropical soils, environmental aspects of soil behavior, material on partly saturated soils, revised treatment of direct or coupled hydraulic, chemical, thermal and electrical flows through soil.

Soil rheology is a branch of soil mechanics investigating the origin of, and the time-dependent changes in the stressed and strained state of soil. The author of this book however interprets rheology as being the science concerned on the one hand with how the state of stress and strain is formed and altered in a body, and on the other, with the particulars of the body's behaviour failing to fit the traditional concepts of elasticity and plasticity. There are many instances where the actual behaviour of soil differs substantially from

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Memorized concepts and by taking into account all the peculiarities of soil deformation, precise knowledge of soil properties can be obtained and analytical prediction thus improved. Such problems are tackled in this book. This book comprises three main parts. The first part deals with basic rheological concepts and terms, the physics of soil, principles of stress-strain theory, elasticity, plasticity and viscosity - all cardinal rheological properties. The second part explains the rheological processes taking place in soils, such as creep and long-term strength, which are examined by the author with allowance for nonlinear deformation. Along with the known phenomenological theories, attention is paid to the novel kinetic (physical) theory of deformations and long-term strength. The third part outlines the generalized theory of soil deformation. It explains why soil offers

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different resistances to tensional and compressional deformations and derives the generalized rheological equation of state, enabling the effect of the three stress tensor invariants on the changes in shape and volume to be taken into account. From the standpoint of the theory discussed, the penultimate chapter gives examples of solutions to some problems facing soil mechanics. The final chapter reviews mathematical models representing the actual behaviour of soil under load and provides numerical solutions for engineering problems obtained with the aid of computer models. Thus the book provides a wealth of information which will be of interest both to the practising geotechnical engineer as well as to teachers and students.

Introducing the first integrated coverage of sedimentary and residual soil engineering

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Despite its prevalence in under-developed parts of the 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 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 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 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 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 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 Sedimentary and Residual Soils is a comprehensive, balanced soil engineering sourcebook that will prove indispensable for practitioners and students in civil engineering, geotechnical engineering, structural engineering, and geology.

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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 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 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

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sophisticated models will perform.

While many introductory texts on soil mechanics are available, most are either lacking in their explanations of soil behavior or provide far too much information without cogent organization. More significantly, few of those texts go beyond memorization of equations and numbers to provide a practical understanding of why and how soil mechanics work. Based on the authors' more than 25 years of teaching soil mechanics to engineering students, *Soil Mechanics Fundamentals* presents a comprehensive introduction to soil mechanics, with emphasis on the engineering significance of what soil is, how it behaves, and why it behaves that way. Concise, yet thorough, the text is organized incrementally, with earlier sections serving as the foundation for

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more advanced topics. Explaining the varied behavior of soils through mathematics, physics and chemistry, the text covers: Engineering behavior of clays Unified and AASHTO soil classification systems Compaction techniques, water flow and effective stress Stress increments in soil mass and settlement problems Mohr's Circle application to soil mechanics and shear strength Lateral earth pressure and bearing capacity theories Each chapter is accompanied by example and practicing problems that encourage readers to apply learned concepts to applications with a full understanding of soil behavior fundamentals. With this text, engineering professionals as well as students can confidently determine logical and innovative solutions to challenging situations.

A simplified approach to applying the

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Finite Element 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 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 ABAQUS® Applications provides civil engineering students and practitioners with a simple, basic introduction to applying the finite element method to soil mechanics problems. Accessible to someone with little background in soil mechanics and finite element analysis, **Applied Soil Mechanics with ABAQUS® Applications** explains the basic concepts of soil mechanics and then prepares the reader for solving geotechnical engineering problems

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Manual using both traditional engineering solutions and the more versatile, finite element solutions. Topics covered include:

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Taking a unique approach, the author describes the general soil mechanics for each topic, shows traditional applications of these principles with longhand solutions, and then presents finite element solutions for the same applications, comparing both. The book is prepared with ABAQUS® software applications to enable a range of readers to experiment firsthand with the principles described in the book (the software application files are available under "student resources" at www.wiley.com/college/helwany). By presenting both the traditional solutions

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Alongside the FEM solutions, Applied Soil Mechanics with ABAQUS® Applications is an ideal introduction to traditional soil mechanics and a guide to alternative solutions and emergent methods. Dr. Helwany also has an online course based on the book available at www.geomilwaukee.com.

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

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While many introductory texts on soil mechanics are available, most are either lacking in their explanations of soil behavior or provide far too much information without cogent organization. More significantly, few of those texts go beyond memorization of equations and numbers to provide a practical understanding of why and how soil mechanics work. Based on the authors' more than 25 years of teaching soil mechanics to engineering students, *Soil Mechanics Fundamentals* presents a comprehensive introduction to soil mechanics, with emphasis on the engineering significance of what soil is, how it behaves, and why it behaves that way. Concise, yet thorough, the text is organized incrementally, with earlier

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