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Fundamentals of Soil Behavior By James K. Mitchell. John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10016. 422p. 1976. \$22.50

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static and dynamic properties, this Third Edition continues the tradition of providing the latest information on the physical properties of soil and the fundamentals of its behavior over time. Students and busy professionals will connect with this new edition's timesaving, streamlined format and its greater emphasis on practical exercise problems involving advanced concepts of soil behavior. Other must-read features of this Third Edition include: 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

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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.

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.

While many introductory texts on soil mechanics are available, most are either lacking in their explanations of soil

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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 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

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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.

Introducing the first integrated coverage of sedimentary and residual soil engineering Despite its prevalence in under-developed parts of the United States and most tropical and

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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 soil engineering, from bearing capacity and

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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,

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and geology.

For courses in Soil Mechanics and Foundations. Essentials of Soil 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, architectural and construction-related programs, this new edition features a separate chapter on earthquakes, a more logical organization, and new material relating to pile foundations design and construction and soil permeability. It's rich applications, well-illustrated examples, end-of-chapter problems and detailed explanations make it

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an excellent reference for students, practicing engineers, architects, geologists, environmental specialists and more.

An accessible, clear, concise, and contemporary course in geotechnical engineering, this key text: strikes a balance between theory and practical applications for an introductory course in soil mechanics keeps mechanics to a minimum for the students to appreciate the background, assumptions and 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 explanation of soil behaviour is presented particularly in soil settlement and soil strength offers substantial on-line resources to support teaching and learning

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Geotechnical And Civil Engineers all over the world continue to face problems with a wide range of geosystems involving materials that remain under partially saturated conditions throughout the year. The lack of education and training among engineering graduates and practitioners to properly deal with unsaturated soil conditions has resulted in faulty or excessively conservative designs, frequent construction delays, and deficient long-term performance of built infrastructure. Over the last few decades, however, the discipline of unsaturated soil mechanics has begun to receive increasing attention worldwide, providing better explanations for soil behavioral patterns than conventional saturated soil mechanics. Experimental and applied Modeling of

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Unsaturated soil contains 28 papers examining the most current thinking and practices involving unsaturated soils. This Geotechnical Special Publication is divided into two broad categories: general characterization and constitutive behavior, and applied modeling and analysis. The papers in this publication were presented during the GeoShanghai 2010 International Conference held in Shanghai, China, June 3-5, 2010.

This book highlights the use of Solidification/Stabilization (S/S) to treat lead-contaminated soils, which are widely present in China. It reveals the evolutionary mechanism of the structural characteristics of Pb contaminated soil during the S/S process. In addition, the book systematically analyzes

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laws influencing the S/S process and its internal mechanisms, and develops new models for the strength prediction and Pb leaching prediction of S/S monolith. The results can provide essential theoretical guidance and parameter-related support for the design of Pb-contaminated soil S/S remediation and recycling solutions.

Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations contains the papers presented at the International Conference on Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations (GFAC 2019, Saint Petersburg, Russia, 6-8 February 2019). The contributions present the latest research

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findings, developments, and applications in the areas of geotechnics, soil mechanics, foundations, geological engineering and share experiences in the design of complex geotechnical objects, and are grouped in 8 sections:

- Analytical decisions and numerical modeling for foundations;
- Design and construction in geologically hazardous conditions;
- Methods for surveying the features of dispersed, rocky soils and structurally unstable soils;
- Exploration, territory improvement and reconstruction in conditions of compact urban planning and enterprises, etc.;
- Construction, reconstruction and exploitation of infrastructure facilities in different soil conditions;
- R&D support and quality control of new materials, design and technology solutions in constructing bases, foundations, underground and surface

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constructions; • Condition survey and accident evolution analysis in construction; • Up-to-date monitoring techniques in building construction and exploitation. Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations collects the state-of-the-art in geotechnology and construction, and will be of interest to academia and professionals in geotechnics, soil mechanics, foundation engineering and geological engineering.

In the past decades advances have been made in the research and practice on unsaturated soil mechanics. In 2000 the first Asia-Pacific Conferences on Unsaturated Soils was organized in Singapore. Since then, four conferences have

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been held under the continued support of the Technical Committee on Unsaturated Soils (TC106) of the International Socie

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