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unsaturated soil mechanics, ground improvement, liquefaction and seismic studies, soil-structure interaction and stability analysis of man-made and natural slopes. The contributing authors 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 2016, this book will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering.

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

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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

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Knowledge surrounding the behavior of earth materials is important to a number of industries, including the mining and construction industries. Further research into the field of geotechnical engineering can assist in providing the tools necessary to analyze the condition and properties of the earth. *Technology and Practice in Geotechnical Engineering* brings together theory and practical application, thus offering a unified and thorough understanding of soil mechanics. Highlighting illustrative examples,

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This practical guide provides the best introduction to large deformation material point method (MPM) simulations for geotechnical engineering. It provides the basic theory, discusses the different numerical features used in large deformation simulations, and presents a number of applications -- providing references, examples and guidance when using MPM for practical applications. MPM covers problems in static and dynamic situations within a common framework. It also opens new frontiers in geotechnical modelling and numerical analysis. It represents a powerful tool for

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Exploring large deformation behaviours of soils, structures and fluids, and their interactions, such as internal and external erosion, and post-liquefaction analysis; for instance the post-failure liquid-like behaviours of landslides, penetration problems such as CPT and pile installation, and scouring problems related to underwater pipelines. In the recent years, MPM has developed enough for its practical use in industry, apart from the increasing interest in the academic world.

Establishes Geotechnical Reliability as Fundamentally Distinct from Structural Reliability Reliability-based design is relatively well established in structural design. Its use is less mature in geotechnical design, but there is a steady progression towards reliability-based design as seen in the inclusion of a new Annex D on "Reliability of Geotechnical

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Structures" in the third edition of ISO 2394. Reliability-based design can be viewed as a simplified form of risk-based design where different consequences of failure are implicitly covered by the adoption of different target reliability indices. Explicit risk management methodologies are required for large geotechnical systems where soil and loading conditions are too varied to be conveniently slotted into a few reliability classes (typically three) and an associated simple discrete tier of target reliability indices. Provides Realistic Practical Guidance Risk and Reliability in Geotechnical Engineering makes these reliability and risk methodologies more accessible to practitioners and researchers by presenting soil statistics which are necessary inputs, by explaining how calculations can be carried out using simple tools, and by presenting illustrative

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or actual examples showcasing the benefits and limitations of these methodologies. With contributions from a broad international group of authors, this text: Presents probabilistic models suited for soil parameters Provides easy-to-use Excel-based methods for reliability analysis Connects reliability analysis to design codes (including LRFD and Eurocode 7) Maximizes value of information using Bayesian updating Contains efficient reliability analysis methods Accessible To a Wide Audience Risk and Reliability in Geotechnical Engineering presents all the "need-to-know" information for a non-specialist to calculate and interpret the reliability index and risk of geotechnical structures in a realistic and robust way. It suits engineers, researchers, and students who are interested in the practical outcomes of reliability and risk analyses without going

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Arora into the intricacies of the underlying mathematical theories.

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

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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.

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 are renowned researchers in their respective fields, which include soft ground improvement, seismic response of

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retaining structure using soil-structure Interaction (SSI) principles, and unsaturated soils. Based on keynote addresses and invited talks presented at the Indian Geotechnical Conference 2016, this book will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering.

The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global

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