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Soils are the most common and complex type of construction material. Virtually all structures are either built with soil (e.g., earth dams and embankments), in soil (e.g., tunnels and underground storage facilities), or on soil (e.g., building foundations and roads). Soil conditions and load combinations are unique to each site. To be able to predict soil behavior under the anticipated loading conditions, the mechanics of soils should be well understood, and their specific properties evaluated. The project design should also take into consideration the environmental, social, and economic factors. The five-volume book series delivers a comprehensive coverage of topics in geotechnical engineering practice. The unique design of the text allows the user to look up a topic of interest and be able to find, in most cases, the related information all on the same sheet with related figures and tables, eliminating the need for

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figure and table referral numbers. In a way, each page is a capsule of information on its own, yet, related to the subject covered in that chapter. The topics covered in all five volumes will assist the reader with becoming a licensed professional engineer (PE) and a licensed geotechnical engineer (GE). Volume 1 contains chapters 1 through 7, which provides the user with a practical guide on the fundamentals of soil mechanics, including: Natural Soil Deposits, Soil Composition and Properties, Soil Improvement, Soil Water, Soil Stresses, Soil Compressibility and Settlement, and Shear Strength of Soil. Example problems follow the topic they cover. Several practice problems are included at the end of each chapter with the answers provided. It also contains the necessary forms, tables, and graphing papers for the state-of-the-practice laboratory experiments in soil mechanics.

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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

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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 discusses contemporary issues related to soil mechanics and foundation engineering in earthworks, which are critical components in construction projects and often require detailed management techniques and unique solutions to address failures and implement remedial measures. The geotechnical engineering

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community continues to improve the classical testing techniques for measuring critical properties of soils and rocks, including stress wave-based non-destructive testing methods as well as methods used to improve shallow and deep foundation design. To minimize failure during construction, contemporary issues and related data may reveal useful lessons to improve project management and minimize economic losses. This book focuses on these aspects using appropriate methods in a rather simple manner. It also touches upon many interesting topics in soil mechanics and modern geotechnical engineering practice such as geotechnical earthquake engineering, principals in foundation design, slope stability analysis, modeling in geomechanics, offshore geotechnics, and geotechnical engineering perspective in the preservation of historical buildings and archeological sites. A total of seven

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chapters are included in the book.

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