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equations, displacement method of analysis: moment distribution, analysis of beams and frames consisting of nonprismatic members, truss analysis using the stiffness method, beam analysis using the stiffness method, and plane frame analysis using the stiffness method. For individuals

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***hand at the lab bench or in the field. Content is organized around standard lab project workflow: It includes over 25 lab projects that are closely aligned to current ASTM standards followed by data sheets for collecting field data***



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***topics in a logical and extensively illustrated approach, including: grain-size distribution; the nature of water in clay; consistency of cohesive soils; weight-volume relationships; soil classification systems;***

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***references for further in-  
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field conditions Several new  
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engineering, critical state soil  
mechanics, geosynthetics,  
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the structure. Although earth anchors have been used in practice for several hundred years, proper theoretical developments for purposes of modern engineering design have taken place only during the past twenty years or so.

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anchor plates, helical anchors, and anchor piles. Discussions on the failure mechanism in soil located around the anchor, as well as various theories to calculate the ultimate and allowable loads, are presented. Laboratory and field test



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results which are required to supplement and verify the theories have also been included. This book is of interest to consulting engineers in geotechnical engineering, as well as geotechnical engineering

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More than ten years have passed  
since the first edition was  
published. During that period there  
have been a substantial number of  
changes in geotechnical

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engineering, especially in the applications of foundation engineering. As the world population increases, more land is needed and many soil deposits previously deemed unsuitable for residential housing or other

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construction projects are now being used. Such areas include problematic soil regions, mining subsidence areas, and sanitary landfills. To overcome the problems associated with these natural or man-made soil deposits, new and

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increasingly being built. Because of the heavy design loads and the complicated environments, the traditional design concepts, construction materials, methods, and equipment also need improvement. Further, recent

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energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost-saving methods for foundation design and construction.

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Rock Mechanics

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design of foundations such as spread  
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*technology programs where soil mechanics and foundation engineering are combined into one course. It is also a useful reference tool for civil engineering practitioners.*

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geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help

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readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook

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includes the fundamental concepts of soil mechanics as well as foundation engineering, including bearing capacity and settlement of shallow foundations (spread footings and mats), retaining walls, rased cuts, piles, and drilled shafts. Intended as an introductory

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Classification System and the Unified Soil 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 Soil Mechanics

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Appendix A: Weight-Volume  
Relationships Appendix B: Data Sheets  
for Laboratory Experiments Appendix  
C: Data Sheets for Preparation of  
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students of geotechnical engineering, but it will be a useful reference for graduate students and consultants in the the field, as well as being a valuable addition to any civil engineering library.

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engineering designs and analysis. Laboratory and in situ testing of soils can add significant cost to a civil engineering project. By using appropriate empirical correlations, it is possible to derive many design parameters, thus limiting our reliance

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on these soil tests. The authors have decades of experience in geotechnical engineering, as professional engineers or researchers. The objective of this book is to present a critical evaluation of a wide range of empirical correlations reported in the literature,

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along with typical values of soil parameters, in the light of their experience and knowledge. This book will be a one-stop-shop for the practising professionals, geotechnical researchers and academics looking for specific correlations for estimating

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**provides a detailed  
discussion of standard  
soil classification systems  
used by engineers: the  
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**appendices:Appendix A:  
Weight-Volume  
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settlement computations,  
and more. Example cases  
have been provided  
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Soft Clay Engineering and Ground Improvement covers the design and implementation of ground improvement techniques as applicable to soft clays. This particular subject poses major geotechnical challenges in civil engineering. Not only civil



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engineers, but planners, architects, consultants and contractors are now aware what soft soils are and the risks associated with development of such areas. The book is designed as a reference and useful tool for those in the industry, both to

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consultants and contractors. It also benefits researchers and academics working on ground improvement of soft soils, and serves as an excellent overview for postgraduates. University lecturers are beginning to incorporate more ground

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improvement topics into their curricula, and this text would be ideal for short courses for practicing engineers. It includes several examples to assist a newcomer to carry out preliminary designs. The three authors, each with dozens of

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years of experience, have witnessed and participated in the rapid evolvement of ground improvement in soft soils. In addition, top-tier professionals who deal with soft clays and ground improvement on a daily basis have contributed, providing

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their expertise in dealing with real-world problems and practical solutions.

Intended as an introductory text in soil mechanics, the eighth edition of Das, PRINCIPLES OF GEOTECHNICAL ENGINEERING offers an overview of soil

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properties and mechanics together with coverage of field practices and basic engineering procedure. Background information needed to support study in later design-oriented courses or in professional practice is provided through a wealth of

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comprehensive discussions,  
detailed explanations, and more  
figures and worked out problems  
than any other text in the market.  
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version.

Advanced Soil Mechanics, Second  
Edition

Fundamentals of Soil Dynamics

Earth Anchors

Advanced Soil Mechanics

Principles of Geotechnical

Engineering Cengage Learning



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Geotechnical Properties of Soil -  
Natural Soil Deposits and Subsoil  
Exploration - Shallow Foundations:  
Ultimate Bearing Capacity - Ultimate  
Bearing Capacity of Shallow  
Foundations: Special Cases -  
Shallow Foundations: Allowable  
Bearing Capacity and Settlement -

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Mat Foundations - Lateral Earth  
Pressure - Retaining Walls - Sheet  
Pile Walls - Braced Cuts - Pile  
Foundations - Drilled-Shaft  
Foundations - Foundations on  
Difficult Soils - Soil Improvement  
and Ground Modification.

Soil Mechanics Laboratory Manual

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Structural Analysis