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Bob Holtz, PhD, PE, D.GE, has degrees from Minnesota and Northwestern, and he attended the Special Program in Soil Mechanics at Harvard under Professor A. Casagrande. Before coming to the UW in 1988, he was on the faculty at Purdue and Cal State-Sacramento.

A descriptive, elementary introduction to geotechnical engineering - with applications to civil engineering practice. \*focuses on the engineering classification, behavior, and properties of soils necessary for the design and construction of foundations and earth structures. \*introduces vibratory and dynamic compaction, the method of fragments, the Schmertmann procedure for determining field compressibility, secondary compression, liquefaction, and an extensive use of the stress path method.

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Explains the factors which determine and control the engineering properties of 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.

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A comprehensive guide to the most useful geotechnical laboratory measurements Cost effective, high quality testing of geo-materials is

possible if you understand the important factors and work with nature wisely. Geotechnical Laboratory Measurements for Engineers guides geotechnical engineers and students in conducting efficient testing without sacrificing the quality of results. Useful as both a lab manual for students and as a reference for the practicing geotechnical engineer, the book covers thirty of the most common soil tests, referencing the ASTM standard procedures while helping readers understand what the test is analyzing and how to interpret the results. Features include: Explanations of both the underlying theory of the tests and the standard testing procedures The most commonly-taught laboratory testing methods, plus additional advanced tests Unique discussions of electronic transducers and computer controlled tests not commonly covered in similar texts A support website at [www.wiley.com/college/germaine](http://www.wiley.com/college/germaine) with blank data sheets you can use in recording the results of your tests as well as Microsoft Excel® spreadsheets containing raw data sets supporting the experiments

In this book, a chapter on stability of slopes has been included as most of the universities cover this in the first course of Geotechnical Engineering. The contents of this volume are written at a basic level suitable for a first course in Geotechnical Engineering. This book highlights the basic principles of soil mechanics along with applications to many problems in Geotechnical Engineering. The material is covered in a very simple, clear and logical manner. A number of solved and exercise problems have been included in each chapter.

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