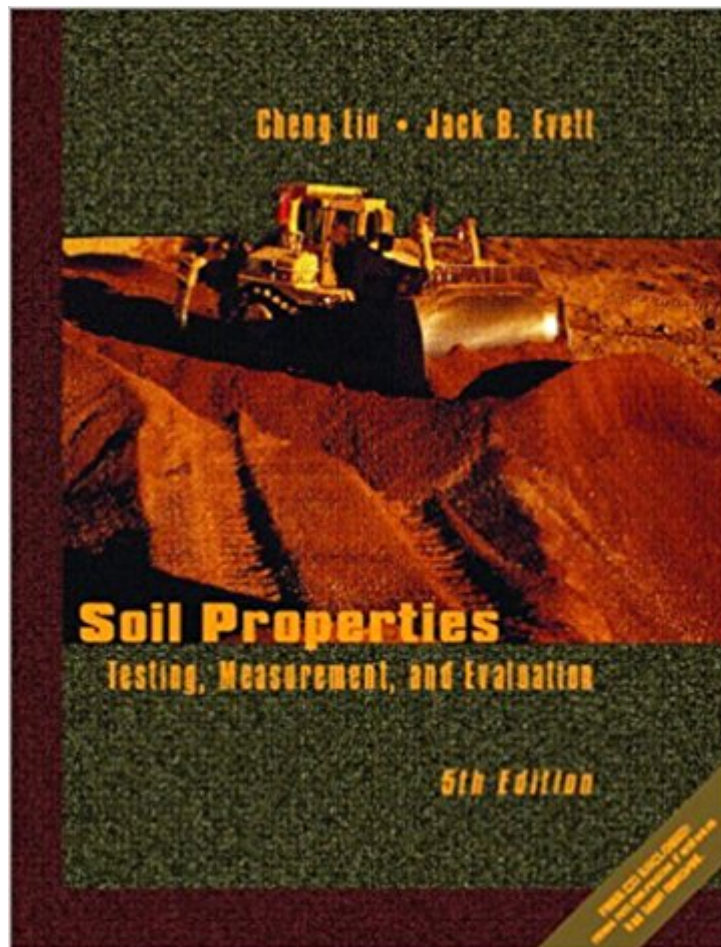




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Soil Properties: Testing, Measurement, And Evaluation (5th Edition)



Synopsis

For sophomore/senior-level courses in Geotechnical Engineering or Soils and Foundation Engineering offered in Construction or Civil Engineering Technology departments. This unique lab manual guides students step-by-step through the hows and whys of the most commonly used testing methods in civil engineering practice--those based on the latest American Society for Testing and Materials (ASTM). The manual uses a consistent "Procedure," "Data," and "Calculations" format for each test; contains completely worked examples showing the computations required for the analysis and evaluation of the test data collected; discusses what data, results, and other information should be presented in the test report; and explains what the test results will be used for in practical engineering problems. Blank data reporting forms and graph papers are provided for most tests, and an accompanying CD-ROM contains state-of-the-art, user-friendly software for compiling test data, performing calculations, plotting curves, and obtaining final results.

Book Information

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Customer Reviews

"As a laboratory textbook, it is extremely accurate, detailed; and complex. This text would also be excellent for application in training a technician for an industry laboratory or geo-testing company."
#151; Timothy W. Zeigler, Southern Polytechnic State University"Overall, the manual does an excellent job in presenting the principles of soil mechanics and the laboratory experiments."
#151; Dr. Mohammad Najafi, PE, Director, Trenchless Research & Development Center; Visiting Associate Professor, University of Missouri, Columbia

Soil Properties: Testing, Measurement and Evaluation represents a unique soils laboratory manual based on the latest American Society for Testing and Materials (ASTM) procedures--the most commonly used methods in civil engineering practice. The Third Edition has been completely expanded and updated to include the most recent information available and to make learning more accessible than ever. --This text refers to an out of print or unavailable edition of this title.

Need book for school. Thank you

Lab books are all the same! This lab book is nothing different than my other soils lab books. All the experiments are the same and the only difference in the test is that every instructor's interest on the behavior of soil will vary. Meaning they will omit one test for another based on their emphasis of importance of soil. A good professor will have a descent lab that has a wide variety of different regional soil samples for the students to test. I was truly amazed at my soil's lab diversity in samples. My Professor had soil samples from many different states from across the United States and other countries. This made the lab experiments very interesting and allowed all the results to be different between students and the analysis according to each soil's characteristic behavior.

Great.

I bought this book because it was the required lab manual for a Soils Testing Class at the University I attend. The authors went into great detail in describing each lab and all the equipment used to perform the tests. However, as a student I would have hoped to know how to decipher the results of the test to come up with a useable solution to apply to real life construction applications. For example, if I find during a test that my soil is non plastic, how can I find out what kind of foundation to use to build a structure on the soil? I feel like the chapters should have gone at least one step further in their explanations.

I was a TA for Soil-Lab while I was not even a geotechnical graduate student. This book has lots of details (sometimes overwhelmingly) and undergrad students may have difficulties to find basic steps toward some tests. In addition, I couldn't find data sheet files to print them out for students' use and I had to carbon-copy the pages from the book. All in all, it is a professional book, not just an educational over-simplified textbook.

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