



Introduction to Soil Mechanics Laboratory Testing

Dante Fratta, Jennifer Aguezzant, Lynne Roussel-Smith

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A step-by-step text on the basic tests performed in soil mechanics, **Introduction to Soil Mechanics Laboratory Testing** provides procedural aids and elucidates industry standards. It also covers how to properly present data and document results. Containing numerical examples and figures, the information presented is based on American Society for Testing and Materials (ASTM) standards, and US Army Corps of Engineers engineering manuals.

The authors discuss the different methods of *in situ* field methods and *ex situ* laboratory methods of soil description and identification. They present equations for the physical properties of soil and laboratory methods of soil classification. They also discuss tests for the interaction of soil and water, and hydraulic conductivity and consolidation. These tests produce information useful in the identification and characterization of soil samples and their engineering behaviors.

A comprehensive resource, the book describes the evaluation of physical properties of soils, including mass, weight, unit weight, and mass density of the soil mass and its component phases. These properties are then expanded to define a number of weight and volumetric relationships. The book also discusses tests used in the evaluation of the density-water content relationships in soils and in the evaluation of the quality of compaction operations. These features and more make this book an excellent guide for testing soils.

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