



# Soil Mechanics Fundamentals

*Isao Ishibashi, Hemanta Hazarika*

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While many introductory texts on soil mechanics are available, most are either lacking in their explanations of soil behavior or provide far too much information without cogent organization. More significantly, few of those texts go beyond memorization of equations and numbers to provide a practical understanding of why and how soil mechanics work.

Based on the authors' more than 25 years of teaching soil mechanics to engineering students, **Soil Mechanics Fundamentals** presents a comprehensive introduction to soil mechanics, with emphasis on the engineering significance of *what soil is, how it behaves, and why it behaves that way*. Concise, yet thorough, the text is organized incrementally, with earlier sections serving as the foundation for more advanced topics. Explaining the varied behavior of soils through mathematics, physics and chemistry, the text covers:

- Engineering behavior of clays
- Unified and AASHTO soil classification systems
- Compaction techniques, water flow and effective stress
- Stress increments in soil mass and settlement problems
- Mohr's Circle application to soil mechanics and shear strength
- Lateral earth pressure and bearing capacity theories

Each chapter is accompanied by example and practicing problems that encourage readers to apply learned concepts to applications with a full understanding of soil behavior fundamentals. With this text, engineering professionals as well as students can confidently determine logical and innovative solutions to challenging situations.

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