



# The Foundation Engineering Handbook, Second Edition

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# The Foundation Engineering Handbook, Second Edition

## The Foundation Engineering Handbook, Second Edition

Considering how structures interact with soil, and building proper foundations, is vital to ensuring public safety and to the longevity of buildings. Understanding the strength and compressibility of subsurface soil is essential to the foundation engineer. **The Foundation Engineering Handbook, Second Edition** provides the fundamentals of foundation engineering needed by professional engineers and engineering students.

It presents both classical and state-of-the-art design and analysis techniques for earthen structures and examines the principles and design methods of foundation engineering needed for design of building foundations, embankments, and earth retaining structures. It covers basic soil mechanics, and soil and groundwater modeling concepts, along with the latest research results.

What's New in the Second Edition:

- Adds alternative analytical techniques to nearly every chapter
- Supplements existing material with new content
- Includes additional applications in the state of the art such as unsaturated soil mechanics, analysis of transient flow through soils, deep foundation construction monitoring based on thermal integrity profiling, and updated ground remediation techniques
- Covers reliability-based design and LRFD (load resistance factor design) concepts not addressed in most foundation engineering texts
- Provides more than 500 illustrations and over 1,300 equations

The text serves as an ideal resource for practicing foundation and geotechnical engineers, as well as a supplemental textbook for both undergraduate and graduate levels.

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