



Geotechnical Engineers Portable Handbook, Second Edition (Mechanical Engineering)

By Robert Day



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Fully updated to include the 2012 International Building Code (IBC), *Geotechnical Engineer's Portable Handbook*, Second Edition, features a wealth of on-the-job geotechnical and construction related information in a convenient, quick-reference format. This practical resource is filled with essential data, formulas, and guidelines you can access right away. Detailed tables, charts, graphs, and illustrations are included throughout the book for ease of use in the field.

Coverage includes:

- Field exploration
- Laboratory testing
- Soil and rock classification
- Phase relationships
- Effective stress and stress distribution
- Shear strength
- Permeability and seepage
- Settlement analyses
- Bearing capacity analyses
- Pavement and pipeline design
- Expansive soil
- Slope stability
- Geotechnical earthquake engineering
- Erosion analyses
- Retaining walls
- Deterioration
- Foundations
- Grading and other site improvement methods
- Groundwater and percolation tests
- Excavation, underpinning, and field lead tests
- Geosynthetics

- Instrumentation
- International Building Code regulations for soils
- International Building Code regulations for foundations

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