



Geotechnical Engineers Portable Handbook, Second Edition (Mechanical Engineering)

By Robert Day



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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 load tests
- Geosynthetics
- Instrumentation
- International Building Code regulations for soils

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