



# Geotechnical Engineering Handbook

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# Geotechnical Engineering Handbook

## Geotechnical Engineering Handbook

This one-of-a-kind, definitive reference offers expansive coverage of geotechnical engineering for civil engineering professionals. Each of the 15 chapters is the work of engineering experts--putting at your disposal a vast source of engineering experience. The **Geotechnical Engineering Handbook** brings together essential information related to the evaluation of engineering properties of soils; design of foundations such as spread footings, mat foundations, piles, and drilled shafts; and fundamental principles of analyzing the stability of slopes and embankments, retaining walls, and other earth-retaining structures. It covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical, sliding and rocking excitations. This definitive reference also details environmental geotechnology and foundations for railroad beds.

Comprehensive coverage, logical organization, and clear discussions make this the tool of choice for both experienced engineers and those just embarking on their careers.

## Key Features

- Presents state-of-the-art applications for geotechnical engineers
- Contains numerous charts, drawings, and illustrations to illuminate the applications and theory
- Offers numerous worked-out problems
- Includes up-to-date coverage of environmental geotechnology

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