



# Geotechnical Engineering: Soil and Foundation Principles and Practice, 5th Ed. (Mechanical Engineering)

By Richard Handy, Merlin Spangler

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**Geotechnical Engineering: Soil and Foundation Principles and Practice, 5th Ed. (Mechanical Engineering)** By Richard Handy, Merlin Spangler

## Master the Latest Developments in Soil Testing and New Applications of Geotechnical Engineering

*Geotechnical Engineering: Principles and Practices* offers students and practicing engineers a concise, easy-to-understand approach to the principles and methods of soil and geotechnical engineering. This updated classic builds from basic principles of soil mechanics and applies them to new topics, including mechanically stabilized earth (MSE), and intermediate foundations. This Fifth Edition features:

- Over 400 detailed illustrations and photographs
- Unique background material on the geological, pedological, and mineralogical aspects of soils with emphasis on clay mineralogy, soil structure, and expansive and collapsible soils.
- New coverage of mechanically stabilized earth (MSE); intermediate foundations; in-situ soil testing; statistical analysis of data; “FORE,” a scientific method for analyzing settlement; writing the geotechnical report; and the geotechnical engineer as a sleuth and expert witness.

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#### **About the Author**

**Richard L. Handy, Ph. D.**, is Distinguished Professor Emeritus of Civil Engineering and Construction Engineering at Iowa State University. He is also the founder of Handy Geotechnical Instruments, a company that manufactures innovative soil testing devices. Dr. Handy is the author of *The Day the House Fell* and co-author of the Third and Fourth Editions of *Soil Engineering*. Recognized as a scientist as well as an engineer, he is a Fellow in the Geological Society of America and also in the American Association for the Advancement of Science.

**M.G. Spangler** was a Research Professor at Iowa State University and is well-known internationally as the author of the "Marston-Spangler theory for loads on underground conduits." He also conducted seminal research on pressures on retaining walls and many other topics. He was a recipient of the Marston Medal at Iowa State University and was an Honorary Member of ASCE.

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