



# Geologic Hazards: A Field Guide for Geotechnical Engineers

*Roy E. Hunt*

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## **Geologic Hazards: A Field Guide for Geotechnical Engineers** Roy E. Hunt

Geologic hazards pose the greatest threat to human safety for any geotechnical undertaking, but it is ultimately the engineer's ability to recognize and cope with these hazards that will determine the safety of life and property. Armed with *Geologic Hazards: A Field Guide for Geotechnical Engineers* you will be able to properly recognize, understand various geologic hazards, and provide safe and economical construction. Eminent expert Roy E. Hunt thoroughly examines the potential for slope failures, earthquakes, ground subsidence, collapse, and expansion. Using a clear conceptual approach, he explains what measures are available to minimize or eliminate the risks associated with each of these geologic hazards.

The book sets forth the basis for recognizing, understanding, and treating geologic hazards, using general concepts rather than rigorous mathematical analyses. The author covers the prediction of slope failures through recognition of geologic and other factors that govern failure, the treatment of slopes that are potentially unstable and pose a danger to some existing development, the design and construction of stable cut slopes and sidehill fills, and the stabilization of failed slopes. He provides the foundation for determining the potential for surface movements and for preventing or controlling their effects. A section on earthquakes summarizes and links all of the aspects of earthquakes including their causes, characteristics, and surface effects. It provides a thorough grounding in how to recognize hazard potential and minimize the consequences.

There is no field within geotechnical engineering in which the state of the art is changing so rapidly. Providing the latest information, this resource is a useful tool for designing new projects and redesigning old ones.

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