Landslides in Practice: Investigation, Analysis, and Remedial/Preventative Options in Soils
Derek Cornforth


DESCRIPTION

The authoritative guide to landslide investigation, evaluation, and mitigation design

Landslides in Practice combines clearly written descriptions and real-life case histories in an authoritative, practical guide to landslide investigation, evaluation, and mitigation design. It presents state-of-the-art investigative techniques and practical information on proven remediation techniques and technologies, including handy checklists for undertaking an initial field examination of a landslide.

Landslides in Practice describes the technical tools needed to study landslides-site investigations, soil shear strength properties, and slope stability analyses-and details forty-five methods for stabilizing landslides or preventing instability in soils from occurring. Most remediation techniques are keyed to the ENR Construction Cost Index to help readers determine a rough estimate of the costs associated with the various techniques.

To-the-point summaries explain presented techniques without confusing jargon, and dozens of succinct case histories integrated throughout the book serve as useful examples. In addition, twelve expanded case histories illustrate in depth many aspects of the landslide events and remediation strategies covered.

Complete with hundreds of informative illustrations, Landslides in Practice is a valuable resource for engineers, geologists, consulting firms, and construction companies, as well as landscape architects, land developers, and trial lawyers in the construction industry.
ABOUT THE AUTHOR

Derek H. Cornforth, PhD, PE, is the founder of Cornforth Consultants, Inc. and Landslide Technology, which has studied and remediated hundreds of landslides in the western United States, Alaska, and abroad. He has served on national committees for ASCE and the British Geotechnical Society.

FEATURES

* Only book to cover both investigative techniques as well as offer practical strategies for designing effective landslide remediation and mitigation plans.

* "To-the-point" summaries cut through the technical jargon and get to the heart of the techniques presented.

* Remediation techniques are keyed to the ENR Construction Cost Index to provide the reader with a rough estimate of the costs associated with various techniques.

* Includes dozens of mini-case histories integrated with the text, in addition to 12 in-depth case histories describing all aspects of the landslide events presented and remediation strategies undertaken.

* Includes handy checklists for undertaking an initial field examination of a landslide.

* Includes several chapters describing the concept of shear strength of soils, including presentation of laboratory testing methods and the properties of sands and clays.

* Analytical techniques for evaluating slope stability are presented in detail, including numerous worked examples.

* Thoroughly illustrated with hundreds of clear and concise line-drawings.

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