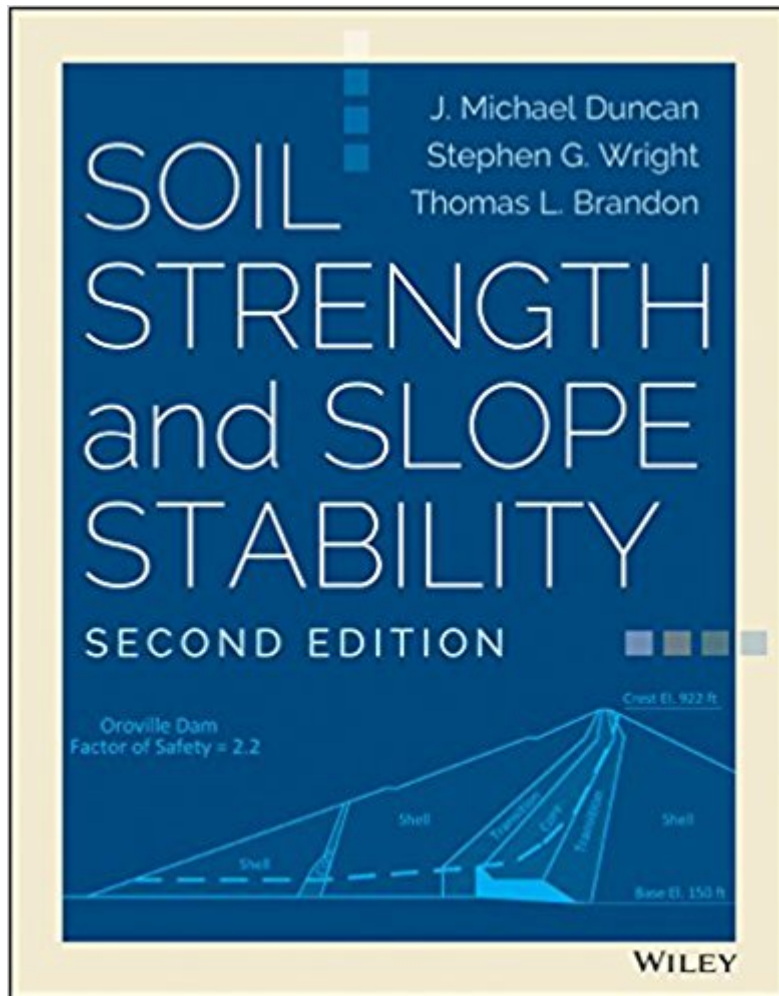




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# Soil Strength And Slope Stability



## Synopsis

The definitive guide to the critical issue of slope stability and safety *Soil Strength and Slope Stability*, Second Edition presents the latest thinking and techniques in the assessment of natural and man-made slopes, and the factors that cause them to survive or crumble. Using clear, concise language and practical examples, the book explains the practical aspects of geotechnical engineering as applied to slopes and embankments. The new second edition includes a thorough discussion on the use of analysis software, providing the background to understand what the software is doing, along with several methods of manual analysis that allow readers to verify software results. The book also includes a new case study about Hurricane Katrina failures at 17th Street and London Avenue Canal, plus additional case studies that frame the principles and techniques described. Slope stability is a critical element of geotechnical engineering, involved in virtually every civil engineering project, especially highway development. *Soil Strength and Slope Stability* fills the gap in industry literature by providing practical information on the subject without including extraneous theory that may distract from the application. This balanced approach provides clear guidance for professionals in the field, while remaining comprehensive enough for use as a graduate-level text. Topics include: Mechanics of soil and limit equilibrium procedures Analyzing slope stability, rapid drawdown, and partial consolidation Safety, reliability, and stability analyses Reinforced slopes, stabilization, and repair The book also describes examples and causes of slope failure and stability conditions for analysis, and includes an appendix of slope stability charts. Given how vital slope stability is to public safety, a comprehensive resource for analysis and practical action is a valuable tool. *Soil Strength and Slope Stability* is the definitive guide to the subject, proving useful both in the classroom and in the field.

## Book Information

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## Customer Reviews

THE DEFINITIVE GUIDE TO STATE-OF-THE-ART SOIL AND SLOPE ANALYSIS Soil Strength and Slope Stability is the essential text for the critical assessment of natural and man-made slopes. Extensive case studies throughout help illustrate the principles and techniques described, including a new examination of Hurricane Katrina failures, plus examples of soil and slope engineering from around the world. Extraneous theory has been excluded to place the focus squarely on the practical application of slope design and analysis techniques, including information about standards, regulations, formulas, and the use of software in analysis. Readers will learn to: Recognize the mechanics of soil and limit equilibrium procedures, and the behavior of each soil type Analyze slope stability, rapid drawdown, partial consolidation, reinforced embankments, and seismic stability Perform safety, reliability, and stability assessments, including techniques for failure probability calculations Master the manual analysis methods that enable verification of software analysis results Slope stability is a fundamental element of geotechnical engineering, involving the assessment of existing slopes, design of man-made slopes, and the factors that cause them to survive or fail. Soil Strength and Slope Stability is the definitive guide to the practice, essential for every civil engineering project.

J. MICHAEL DUNCAN is University Distinguished Professor Emeritus of Civil and Environmental Engineering, and Co-Director of the Center for Geotechnical Practice and Research (CGPR) at Virginia Tech in Blacksburg, Virginia. STEPHEN G. WRIGHT is a professor emeritus of Geotechnical Engineering in the Department of Civil, Architectural, and Environmental Engineering at the University of Texas at Austin. THOMAS L. BRANDON is an associate professor of Civil and Environmental Engineering and Director of the W. C. English Geotechnical Research Laboratory at Virginia Tech in Blacksburg, Virginia.

Excellent publication with much additional useful information added in this second edition. I highly recommend this book for anyone involved in slope stability analyses and slope stabilization, including students, practitioners, and academics.

This is one of the best textbooks I have purchased as a geotechnical engineer. It is both

comprehensive yet concise and very accessible. I would recommend it to any student or professional.

Excellent reference for all geotechnical engineers involved in the assessment of the stability of slopes.

I gave it as a gift

good book, I recommend it , thanks

Very helpful!!!

Excellent book.

Great resource. A must have for anyone involved with geotechnical engineering.

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