



# Slope Analysis (Developments in Geotechnical Engineering)

*R Chowdury*

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## **Slope Analysis (Developments in Geotechnical Engineering) R Chowdury**

Slope Analysis summarizes the fundamental principles of slope analysis. It explores not only the similarities but also the differences in rock slopes and soil slopes, and it presents alternative methods of analysis, new concepts, and new approaches to analysis.

The book introduces both natural and man-made slopes, the nature of soils and rocks, geomorphology, geology, and the aims of slope analysis. These topics are followed by chapters about stress and strain, shear strength of rock and soils, and progressive failure of slopes. This book also presents limit equilibrium methods I and II, which are the planar failure surfaces and slip surfaces of arbitrary shape, respectively. It also includes stress analysis and slope stability, natural slope analysis, and a brief review on plasticity and shear band analysis.

Before presenting its conclusions, the book discusses special aspects of slope analysis, such as earthquake analysis, pseudo-static analysis, dynamic analysis, and anisotropy, in addition to Newmark's approach.



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