

1. Record Nr.	UNINA9910459886603321
Autore	Chowdhury Robin
Titolo	Geotechnical slope analysis // Robin Chowdhury ; other contributors, Phil Flentje, Gautam Bhattacharya
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2010
ISBN	1-135-19207-3 1-135-19210-3 1-282-50388-X 9786612503887 0-203-86420-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (774 p.)
Altri autori (Persone)	FlentjePhil BhattacharyaGautam
Disciplina	624.1/51363 624.151363
Soggetti	Slopes (Soil mechanics) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Aims and overview : slopes, geology, and materials -- Basic geotechnical concepts -- Performance indicators and basic probability concepts -- Limit equilibrium methods I : planar failure surfaces -- Limit equilibrium methods II : slip surfaces and beyond critical equilibrium -- Stress-deformation analyses and their role in slope analysis -- Natural slope analysis considering initial stresses -- Plasticity and shear band analyses : a brief review -- Earthquake effects and seismic slope analysis -- Probabilistic approaches and reliability analyses -- Case study of urban slope stability -- Summing up.
Sommario/riassunto	Freshly updated and extended version of Slope Analysis (Chowdhury, Elsevier, 1978). This reference book gives a complete overview of the developments in slope engineering in the last 30 years. Its multi-disciplinary, critical approach and the chapters devoted to seismic effects and probabilistic approaches and reliability analyses, reflect the distinctive style of the original. Subjects discussed are: the understanding of slope performance, mechanisms of instability,

requirements for modeling and analysis, and new techniques for observation and modeling. Special attention is paid to the relati
