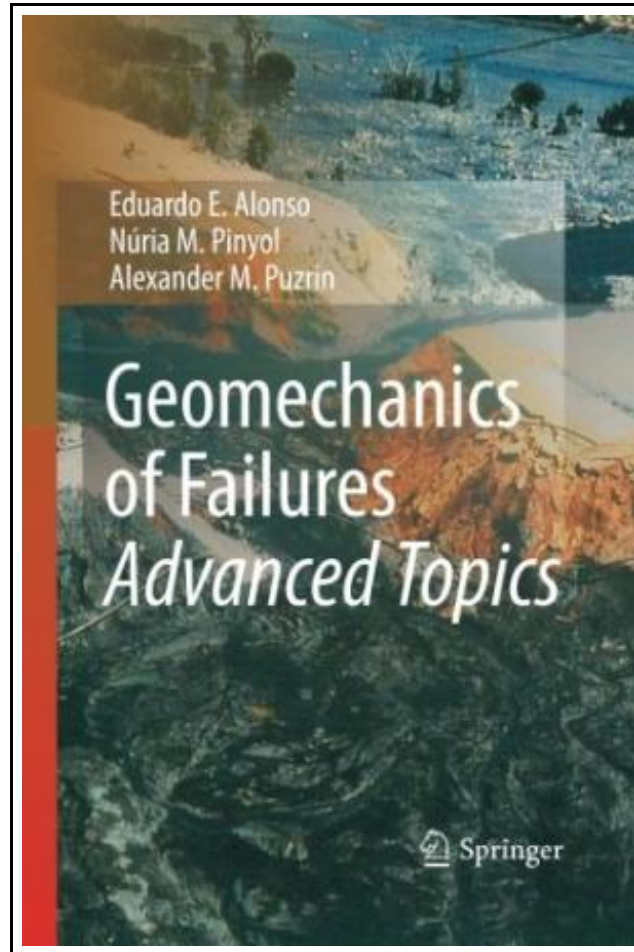


Geomechanics of Failures. Advanced Topics



Filesize: 7.85 MB

Reviews

This ebook is definitely not straightforward to start on looking at but really enjoyable to learn. It usually will not charge excessive. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Karianne Deckow)

GEOMECHANICS OF FAILURES. ADVANCED TOPICS



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Springer Dez 2014, 2014. Taschenbuch. Book Condition: Neu. 235x155x15 mm. This item is printed on demand - Print on Demand Titel. Neuware - Geotechnical failures, specially the catastrophic ones, are a stimulus to improve current understanding of phenomena and procedures and tools for analysis and prediction. This unconventional approach to geomechanics is the essence of this book. In general, soil mechanics and geotechnical textbooks describe first the concepts and theoretical developments and then apply them to interpret or solve a particular applications. This book follows a different course. The case (a failure) is first described and then an explanation is sought. This requires a set of steps which can be summarized as follows: Identify the nature of the problem, develop a dedicated and specific formulation of the case, based on established basic concepts. In general, no single existing theory or procedure is available to solve the case at hand, provide a solution within an acceptable degree of complexity, extract the fundamental aspects of the problem and highlight its relevance. The cases selected have been grouped into three main topics: Landslides, Embankments and Dams and Dynamics of Failures. Cases selected (Vaiont, Aznalcóllar, Brattas-St. Moritz) are unique and illustrate a number of relevant and to some extent controversial issues which are of wide interest, without claiming exhaustive treatment of the subject. The book teaches how to build the necessary models to understand the failures. Well established soil mechanics concepts are the necessary background. But the cases analyzed require in general a step ahead which is specific for the case analyzed. Balance and equilibrium equations are often required as a starting point. They are formulated at different scales, which are selected having in mind the abstract representation of each case. Various chapters illustrate also the coupled nature (flow-deformation-temperature) of geotechnical problems and the...



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