



Rock Engineering Risk (ISRM Book Series)

John A. Hudson, Xia-Ting Feng

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This book provides a new, necessary and valuable approach to the consideration of risk in underground engineering projects constructed within rock masses. There are Chapters on uncertainty and risk, rock engineering systems, rock fractures and rock stress, the design of a repository for radioactive waste, plus two major case examples relating to the headrace tunnels and caverns for a hydroelectric project. These Chapters highlight in detail the authors' new rock engineering risk approach, especially how monitoring during construction can significantly reduce the construction risks. The book is particularly timely given the current increasing emphasis on geo-engineering safety, accountability and sustainability?which requires stricter attention to risk and greater reliability than ever before.

Written by two eminent authors, the two most recent past-Presidents of the International Society for Rock Mechanics (ISRM), this modern and well-illustrated guide on Rock Engineering Risk complements the authors' previous 2011 book on Rock Engineering Design, also published by Taylor & Francis. The book will benefit engineers, contractors, clients, researchers, lecturers and advanced students who are concerned with rock engineering projects in civil, mining, geological and construction engineering worldwide.



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