

# Rock Mechanics and Engineering: Principles



The five-volume set *Comprehensive Rock Engineering*, which was published in 1993, has had an important influence on the development of rock mechanics and rock engineering. Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable, new compilation. *Rock Mechanics and Engineering* represents a highly prestigious, multi-volume work edited by Professor Xia-Ting Feng, with the editorial advice of Professor John A. Hudson. This new compilation offers an extremely wide-ranging and comprehensive overview of the state-of-the-art in rock mechanics and rock engineering and is composed of peer-reviewed, dedicated contributions by all the key experts worldwide as well as by younger, talented researchers. Key features of this set are that it provides a systematic, global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields. The individual volumes cover an extremely wide array of topics grouped under five overarching themes. Volume 1 discusses *Rock Mechanics and Engineering Principles*, and includes contributions grouped under the sub-themes *Discontinuities, Anisotropic, Rock Stress, Geophysics, Strength Criteria and Modelling rock deformation and failure*. This work sets a new standard for rock mechanics and engineering compendia and will be the go-to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come.

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