



Engineering in Jointed and Faulted Rock

Nick Barton, Stavros Bandis

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Engineering in Jointed and Faulted Rock aims to provide the background knowledge, necessary tools, and guidelines for rationalized and consistent engineering approaches to design and construction in and on jointed and faulted rock. Three avenues will be exploited to that effect: mechanics, empiricism and analysis (including numerical analysis).

The book is uniquely dedicated to the theme of engineering in jointed rock to a much greater degree than earlier texts in rock mechanics and rock engineering, and there will be fundamental treatment and examples of the characterization, strength, deformability and permeability of joints and, in separate chapters, the same for rock masses. These fundamentals will be followed by their application in numerical models, for developing the engineering design for rock slopes, tunnels, bridge foundations, dam abutments, nuclear waste disposal, mine shafts and roadways. Empirical design will be validated and improved by numerical modelling where necessary.

The text will be permeated with informative and illustrated case records from the authors' total of 40 countries sphere of experience. Solutions of every-day problems will be interspersed with experiences from the longest tunnel, the widest cavern, the highest dam, the site of the largest underground power house, and the problems with the deepest TBM tunnels.

This much needed text on the mechanics of jointed rock, based on extensive experiments and measurements both in the laboratory and in the field, will be indispensable for the rock engineering and rock mechanics community.

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