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D. F. Coates



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Rock mechanics is a field of applied science which has become recognised as a coherent engineering discipline within the last two decades It consists of a body of knowledge of the mechanical properties of rock various techniques for the analysis of rock stress under some imposed perturbation a set of established principles expressing rock mass response to load and a logical methodology for applying these notions and techniques to real physical problems Some of the areas where application of rock mechanics concepts have been demonstrated to be of industrial value include surface and subsurface construction mining and other methods of mineral recovery geothermal energy recovery and subsurface hazardous waste isolation In many cases the pressures of industrial demand for rigour and precision in project or process design have led to rapid evolution of the engineering discipline and general improvement in its basis in both the geosciences and engineering mechanics An intellectual commitment in some outstanding research centres to the proper development of rock mechanics has now resulted in a capacity for engineering design in rock not conceivable two decades ago Mining engineering is an obvious candidate for application of rock mechanics principles in the design of excavations generated by mineral extraction A primary concern in mining operations either on surface or underground is loosely termed ground control i e **Rock Mechanics Principles. (Rev. 1970).** Canada. Dept. of Energy, Mines and Resources. Mines Branch. Mining Research Centre,1965 **Rock Mechanics Principles** D. F. Coates,1972 Rock Mechanics and Engineering: Principles Xia-Ting Feng,2016 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 Engineeringrepresents 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 *Rock Mechanics Principles* ,1970

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