



Modelling Rock Fracturing Processes: A Fracture Mechanics Approach Using FRACOD (Mixed media product)

By Baotang Shen, Ove Stephansson, Mikael Rinne

Springer, Netherlands, 2013. Mixed media product. Condition: New. 2014 ed.. Language: English . Brand New Book. This text book provides the theoretical background of rock fracture mechanics and displacement discontinuity methods used for the modelling of geomechanical problems. The computer program FRACOD is used to analyse the fracture problems, assessing fracture initiation and propagation in tension (Mode I), shear (Mode II) and mixed mode I and II of solid intact or jointed geomaterials. The book also presents the fundamentals of thermo-mechanical coupling and hydro-mechanical coupling. Formulations of multiple regional mechanical, thermal and hydraulic functions, which allow analyses of fracture mechanics problems for structures made of brittle, rock-like materials, are provided. In addition, instructive examples of code verification and applications are presented. Additional material: The 2-D version of the FRACOD program, a manual on the program and a wealth of verification examples of classical problems in physics, mechanics and hydromechanics are available at A large number of applications related to civil, mining, petroleum and environmental engineering are also included.- The first textbook available on modelling of rock fracture propagation- Introduces readers to the fundamentals of rock fracturing- Uses a modern style of teaching with theory, mathematical modelling and applications in one package...



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