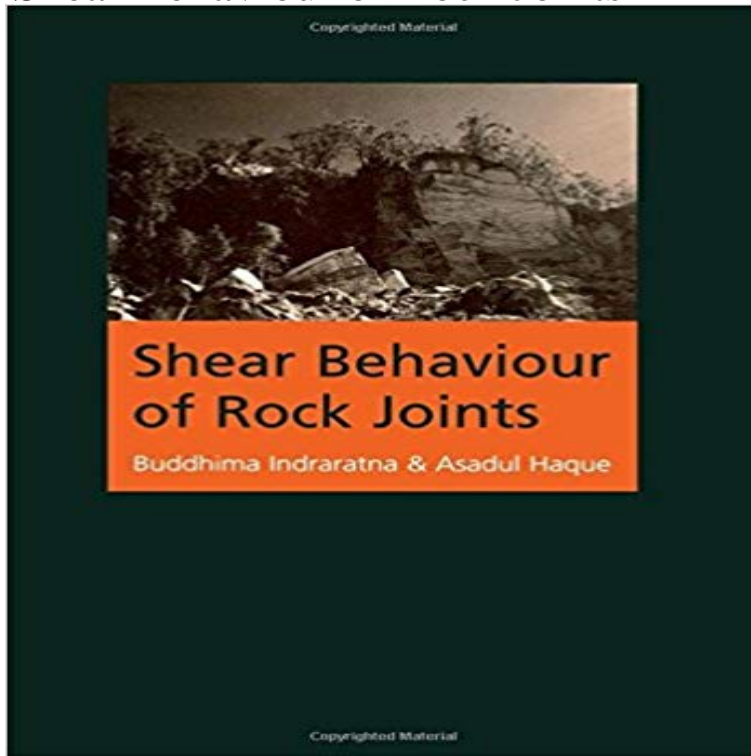


Shear Behaviour of Rock Joints



This title covers the fundamental properties of rock joints, the method of laboratory testing of rock joints, and shear strength assessment under different loading conditions. This work is intended as a reference text for students and practitioners in mining and rock engineering.

Shear behaviour of rock joints with unsaturated infill - Research Online Therefore, it is imperative to know the variation of shear strength in various directions. In other words, shear behavior of rock joint is anisotropic due to roughness Effect of Boundary Condition on the Shear Behaviour of Rock Joints DEM analyses of shear behaviour of rock joints by a novel bond contact model. M J Jiang^{1,2,3}, J Liu^{1,2,3}, C Sun^{1,2,3} and H Chen⁴. Published under licence by Shear Behaviour of Rock Joints - Google Books Result Shear behaviour of rock joints with unsaturated infill. Abstract. Behaviour of soil-infilled rock joints has significant importance with respect to the strength of Parametric Study of Smooth Joint Parameters on the Shear Shear behaviour of rock joints subjected to cyclic loading was previously studied mostly under Constant Normal Load (CNL) conditions which does not Scale effect on the shear behaviour of rock joints based on a Shear behaviour of rock joints under cyclic loading. Buddhima Indraratna. University of Wollongong, indra@. Ali Mirzaghobanali. University of Numerical direct shear tests to model the shear behaviour of rock rock joints under direct shear and constant normal stiffness conditions. Int. The shear behaviour of rock joints has been studied in the past, mainly using the. Experimental studies of scale effects on the shear behaviour of rock The effect of scale on the shear behaviour of joints is studied by performing direct shear tests on different sized replicas cast from various natural joint surfaces. Experimental Studies of Scale Effects on the Shear Behaviour of The main aim of this paper is to investigate the shear behaviour of rock joints in a direct shear test using PFC2D [22]. A new approach to model the joints in PFC is the smooth joint (SJ) model, in which slip surfaces are applied at contacts between particles that lie on the opposite sides of the joint plane. Modelling the Shear Behaviour of Rock Joints with Asperity Damage This paper aims to study the shear behaviour of rock joints in a direct shear test using the particle flow code PFC2D. In this numerical approach, the intact rock is Shear Behaviour of Rock Joints - CRC Press Book The shear behaviour of cemented concrete-rock joints is a key factor affecting the shear resistance of dam foundations, arch bridge foundations, rock socketed Shear behaviour of rock joints with unsaturated infill - ResearchGate The breakage and shear behaviour of intermittent rock joints have been investigated in a series of direct shear tests with a new shear device, specifically A modified model of a single rock joints shear behavior in - arXiv Behaviour of soil-infilled rock joints has significant importance with respect to the strength of fractured rock mass. The presence of even a small