



Shear Behaviour of Rock Joints

Buddhima Indraratna & Asadul Haque

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SJ Ball



Shear Behaviour Of Rock Joints:

Shear Behaviour of Rock Joints Asadul Haque,Buddhima Indrarata,2021-06-30 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

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Rock Joints Nick Barton,Ove Stephansson,1990-01-01 Proceedings of the International Symposium on Rock Joints held at Loen Norway June 1990 Subjects include geological aspects of joint origin and morphology mechanical behaviour such as shear strength hydraulic behaviour and dynamic behaviour Experimental Studies of Scale Effects on the Shear Behaviour of Rock Joints S. Bandis,A. C. Lumsden,N. R. Barton,1986

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Dynamics Experiments Theories and Applications is a collection of scientific and technical papers presented at the Third International Conference on Rock Dynamics and Applications RocDyn 3 Trondheim Norway 26 27 June 2018 The papers in the book reflect the recent developments in experiment and theory as well as engineering applications of rock dynamics Rock dynamics studies the response of rock and rock masses under dynamic loading and during the state transition from static loading to kinetic movement It also includes the study of engineering countermeasures to dynamic instability of rock and rock masses The topics in the book include Dynamic theories Numerical simulation Propagation of stress waves Dynamic tests of rock Stability of underground openings under dynamic loading Rockburst Seismic monitoring Dynamic rock support Blasting Earthquake related rock structure damage etc Applications such as rockburst dynamic rock support seismic monitoring blasting and earthquake related rock structure damage are paid special attention in Rock Dynamics Experiments Theories and Applications The papers from specialists both from mining and tunnelling branches discuss commonly interested dynamic issues Their experience and knowledge in the application of rock dynamics are extremely valuable for all academics engineers and professionals who work with rock dynamics New Challenges in Rock Mechanics and Rock Engineering Roberto Tomás,Miguel Cano,Adrián Riquelme,José Luis Pastor,David Benavente,Salvador Ordóñez,2024-08-20

New Challenges in Rock Mechanics and Rock Engineering includes the contributions presented at the ISRM European Rock

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Eurock 2006: Multiphysics Coupling and Long Term Behaviour in Rock Mechanics Alain van Cotthem, Robert Charlier, Jean-Francois Thimus, Jean-Pierre Tshibangu, 2006-04-27 Special emphasis is given to the constitutive behaviour of rock material including rock mechanics and partial saturation chemo mechanics thermo hydro mechanics weathering and creep Theoretical concepts laboratory and field experiments and numerical simulations are discussed Multiphysics coupling and long term behaviour has practical application

Rock Mechanics and Rock Engineering: From the Past to the Future Reşat Ulusay, 2016-11-18 Rock Mechanics and Rock Engineering From the Past to the Future contains the contributions presented at EUROCK2016 the 2016 International Symposium of the International Society for Rock Mechanics ISRM 2016 Cappadocia Region Turkey 29-31 August 2016 The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices emphasizing the future direction of rock engineering technologies The 204 accepted papers and eight keynote papers are grouped into several main sections Fundamental rock mechanics Rock properties and experimental rock mechanics Analytical and numerical methods in rock engineering Stability of slopes in civil and mining engineering Design methodologies and analysis Rock dynamics rock mechanics and rock engineering at historical sites and monuments Underground excavations in civil and mining engineering Coupled processes in rock mass for underground storage and waste disposal Rock mass characterization Petroleum geomechanics Carbon dioxide sequestration Instrumentation monitoring in rock engineering and back analysis Risk management and the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2016 organized by the Turkish National Society for Rock Mechanics is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

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