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## Rock Dynamics (Hardback)

By Omer Aydan

Taylor Francis Ltd, United Kingdom, 2017. Hardback. Condition: New. Language: English . Brand New Book. Rock dynamics has become one of the most important topics in the field of rock mechanics and rock engineering. The spectrum of rock dynamics is very wide and it includes the failure of rocks, rock masses and rock engineering structures such as rockbursting, spalling, popping, collapse, toppling, sliding, blasting, non-destructive testing, geophysical explorations, science and engineering of rocks and impacts. The book specifically covers fundamentals of rock dynamics, constitutive models, numerical analysis techniques, dynamic testing procedures, the multi-parameter responses and motions of rocks during fracturing or slippage in laboratory experiments, earthquakes and their strong motion characteristics and their effect on various rock structures such as foundations, underground structures, slopes, dynamic simulation of loading and excavation, blasting and its positive utilization in rock engineering, the phenomenon of rockburst in rock excavations, non-destructive testing of rockbolts and rock anchors and impacts by meteors or projectiles. The main goal of this book is to present a unified and complete treatise on Rock Dynamics and to represent a milestone in advancing the knowledge in this field and in leading to new techniques for experiments, analytical and numerical modelling as...



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