



## Numerical Simulations for Rock Fracturing by Destress Blasting

By Saharan, Mani Ram

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | As Applied to Hard Rock Mining Conditions | This book concentrates on the evaluation of destress blasting, which is an important pro-active rockburst control measure. The concept of destress blasting is based on the fracturing of highly stressed rock mass by detonating explosive charge within it. To date, the application lacks scientific base. The aim of this book is to identify the governing mechanisms associated with destress blasting applications. A holistic approach is undertaken, which involves a critical analysis of the reported field evidence, development of a numerical procedure and detailed investigations at the micro-mechanical level to investigate the fracturing of rock under confinement by different types and magnitudes of explosive energy. Analysis of destress blasting is made through dynamic modelling by simulating discrete fractures. Fracturing extent and the amount of destressing is evaluated with the assistance of normalized non-dimensional parameters. These parameters adequately explains destressing phenomenon and offers clarifications to seemingly inexplicable reported field observations. | Format: Paperback | Language/Sprache: english | 248 pp.



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