



Rock Dynamics and Geophysical Exploration (Developments in Geotechnical Engineering)

L.N. Persen

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Rock Dynamics and Geophysical Exploration: Introduction to Stress Waves in Rocks deals with a theoretical tool for predicting stress waves in rocks. The book considers both elastic and Kelvin type materials, and also explains some experiments of stress waves in rocks. The book reviews concepts in the analysis of stresses and deformations, the fundamental equations used to examine the propagation of stress waves in certain types of solids, and the characteristics features of plane waves in elastic mediums. The text explains wave propagation in rocks due to a detonating charge (resulting in stress waves with a spherical symmetry), the response of a cylinder to an outside excitation (resulting in a cylindrical wave), or a harmonically oscillating stress from an outside excitation (resulting in a harmonic input pulse). The text explains Kelvin materials as a generalization of the behavior of the material where a damping effect is incorporated with the elastic medium being studied. The book also compares experimental results of the application of stress waves in rocks with theory, and explains the sensitivity criteria for tunnels. The text cites as an example, the significance of the interaction between tunnels and shock waves before any tunnel expansion can be made by engineers. The book will prove valuable for geologists or for structural, civil, and mining engineers.

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