



Rock Stress and Earthquakes

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The evaluation of in-situ rock stress is not only important in the exploration and engineering involving rock masses for mining, hydropower, tunneling, oil and gas production, and stone quarrying, but also in the geodynamics and earthquake prediction. The methods of determining these stresses for shallow crust in the engineering practice, including hydraulic fracture method, stress relief method, and acoustic emission method, have not developed substantially to satisfy the increasing utilization of rock masses. The geophysical methods for stresses determination of deep crust only determine the stress fields of deep crust qualitatively. Contributed by a group of leading experts from engineering and geophysical community, *Rock Stress and Earthquakes* addresses new developments in numerical modeling and advanced measuring techniques in engineering practices, and build new connections between traditional and geophysical methods, which will both benefit earthquake prediction based on the concept of the crustal stresses.

Rock Stress and Earthquakes reflects the developments in this area, covering measuring techniques, interpretation methods, and the application of in-situ stress in engineering practice and geophysics, and is of interest to academics and engineers in rock mechanics, geophysics, geology, and seismology.

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