

Stress regimes in the lithosphere

Princeton University Press - 2.3 Horizontal stresses



Description: -

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Earth -- Crust.
Rocks -- Fracture.
Strains and stresses -- Measurement.
Stress regimes in the lithosphere
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Stresses in horizontal direction are very often different to the stress in vertical direction. A rock that has undergone ductile strain will remain deformed even if the stress stops. The result is alternating mountains and valleys, known as a basin-and-range figure 19.

Numerical modeling of flexural stresses in the upper crust of NE Brazil

. We are particularly interested in the rheology of major constituents in crustal rocks, feldspar and quartz in continental crust, and olivine in mantle rocks.

Stress Regimes in the Lithosphere on JSTOR

Under elastic conditions, σ_1 is still the vertical stress, S_v , arising from the weight of overburden. Semi-brittle regime: Broad region within which both brittle cataclasis and crystal plastic deformation mechanisms occur. If the blocks of rock on one or both sides of a fracture move, the fracture is called a fault figure 11.

Stress Regimes in the Lithosphere (eBook, 1992) [satis.farmjournal.com]

Stress in the Crack-Propagation Regime, pg.

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