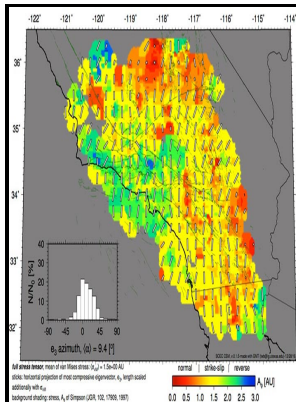# Stress regimes in the lithosphere

Princeton University Press - Stress Regimes in the Lithosphere by Terry Engelder

Description: -

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Earth -- Crust.

Rocks -- Fracture.

Strains and stresses -- Measurement.Stress regimes in the lithosphere

-Stress regimes in the lithosphere

Notes: Includes bibliographical references (p. [401]-449) and index.

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For example, Seager 1964 was skeptical that Hast's in situ stress data had anything to do with tectonics and chose, instead, to use a simple elastic-plastic model to interpret the data. Lithospheric stress is also inferred from the analysis of earthquakes.

Formation of cratonic lithosphere during the initiation of plate tectonics

There are four general types of stress.

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In contrast, during convergent gravitational collapse, a deficit in gravitational potential energy drives crustal material towards the deformed lithosphere.

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Formation of cratonic lithosphere during the initiation of plate tectonics

That is, if we can define the distribution of rock types, pressure, temperature, water content, and strain rate in the lithosphere as a function of depth, we can determine a strength profile through the crust. Granite rocks in Joshua Tree National Park showing horizontal and vertical jointing. In this chapter, we explore the basic principles of deformation of different rock types at a wide range of environmental conditions.

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