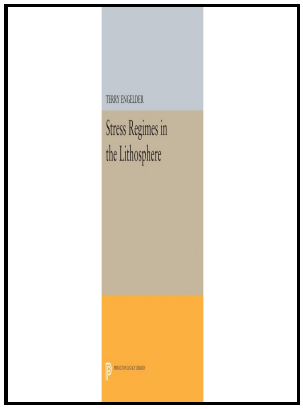
Stress regimes in the lithosphere

Princeton University Press - Ebook STRESS REGIMES IN THE LITHOSPHERE EBOOK de 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.
This edition was published in 1993

Tags: #Stress #Regimes #in #the #Lithosphere

CiteSeerX — Citation Query Stresses in the lithosphere caused by crustal thickness inhomogeneities.

Shear stresses develop at transform boundaries.

Stress Regimes in the Lithosphere by Terry Engelder, Paperback

The dip defines which of two basic types a fault is. Excerpted from Stress Regimes in the Lithosphere by Terry Engelder. .

Rheology

Assuming that the rock in question is fully lithified, one application of equation 1—17 is the calculation of changes in horizontal stress during sedimentation and erosion.

Stress Regimes in the Lithosphere by Terry Engelder

Strain is any change in volume or shape. Examples of local rotations of S Hmax orientations include a 750-85 ° rotation on the northeastern Canadian continental shelf possibly related to margin-normal extension derived from sediment-loading flexural stresses, a 50 °-60 ° rotation within the East African rift relative to western Africa due to extensional buoyancy forces caused by lithospheric thinning, and an approximately 90 ° rotation along the northern margin of the Paleozoic Amazonas rift in central Brazil. In this context, the emphasis was redirected on horizontal compression and the role of gravity on crustal deformation was neglected.

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Under elastic conditions, σ1 is still the vertical stress, Sv, arising from the weight of overburden. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Stress Regimes in the Lithosphere by Terry Engelder

Nevertheless, it may be the cause of certain types of earthquakes. In subducting tectonic plates, the increased pressure of greater depth within the earth may cause the minerals in the plate to metamorphose spontaneously into a new set of denser minerals that are stable at the higher pressure. .

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