

Deformation Of Earth Materials An Introduction To The Rheology Of Solid Earth

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"Much of the recent progress in the solid Earth sciences is based on the interpretation of a range of geophysical and geological observations in terms of the properties and deformation of Earth materials. One of the greatest challenges facing geoscientists in achieving this lies in finding a link between physical processes operating in minerals at the smallest length scales to geodynamic ...

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Deformation along faults and shear zones controls the long-term dynamics of the lithosphere during plate tectonics, but is also a manifestation of short-term dynamics associated with the earthquake cycle. A number of projects at CRES currently investigate the structure and rheology of faults and shear zones and the role of fluids and melt on the strength evolution of deforming rocks in the crust and in the mantle.

Formation and deformation of Earth and planetary materials ...

Deformation of Earth Materials is a textbook for graduate courses on the rheology and dynamics of the solid Earth, and will also provide a much-needed reference for geoscientists in many fields, including geology, geophysics, geochemistry, materials science, mineralogy, and ceramics. It includes review questions with solutions, which allow readers to monitor their understanding of the material presented.

Deformation of Earth Materials - Cambridge University Press

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Summary. Plastic deformation can occur by a collective motion of atoms as crystal dislocations. Evidence for dislocation creep in Earth is abundant although other mechanisms such as diffusional creep (see Chapter 8) dominate under some conditions. The rate of deformation due to dislocation motion is proportional to dislocation density and velocity (the Orowan equation).

Dislocation creep (Chapter 9) - Deformation of Earth Materials

In the case of the earth's mantle, where there are persisting stresses and ongoing irreversible deformation of the rock material, both creation of new dislocations and annihilation of existing...

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This graduate textbook presents a comprehensive, unified treatment of the materials science of deformation as applied to solid Earth geophysics and geology. The deformation of Earth materials is presented in a systematic way covering elastic, anelastic and viscous deformation. Advanced discussions on relevant debates are also included to bring readers a full picture of science in this ...

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The deformation recorded in the rocks occurs when the rocks break (fail) or flows viscously (a type of crystal-scale failure) or plastically (also a crystal-scale failure process). Elastic deformation is the dominant form of deformation at shallow depths in the crust and lithosphere because both the temperature and pressure are low.

1.3: Elastic Deformation - Geosciences LibreTexts

The deformation of Earth materials is presented in a systematic way covering elastic, anelastic and viscous deformation. Advanced discussions on relevant debates are also included to bring readers a full picture of science in this interdisciplinary area. This textbook is ideal for graduate courses on the rheology and dynamics of solid Earth, and includes review questions with solutions so readers can monitor their understanding of the material presented.

Deformation of Earth Materials by Shun-ichiro Karato

Deformation of a polycrystalline material is associated with grain boundary sliding. Large-strain plastic flow involving grain-boundary sliding is sometimes referred to as superplastic flow. Materials science models of superplastic flow are reviewed and some geological significance is discussed.

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