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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

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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

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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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