Rheology Of The Earth: Deformation And Flow Processes In Geophysics And Geodynamics

by Giorgio Ranalli

Rheology Of The Earth: Deformation And Flow Processes In Geophysics And Geodynamics covers the role and consequences of rheological processes in geophysics and geodynamics. It provides a complete treatment of deformation and flow of earth materials from both rheological processes in geophysics and geodynamics. The book includes a large variety of geological processes that operate in the earth. It covers the state of stress, caused by the mantle flow associated with the rebound process, and the role and consequences of rheological processes in geophysics.

The book also discusses the deformation of rocks in the ductile regime, including power-law rheology, dislocation and diffusion creep. Rheology of the Earth deformation and flow processes in geophysics and geodynamics are analyzed.

Giorgio Ranalli is a renowned geophysicist known for his contributions to the field of geophysics and geodynamics. His work on the rheology of the Earth has been influential in understanding the deformation and flow processes in the Earth's mantle.

The book is a valuable resource for students and researchers interested in the mechanics of the Earth's interior and the processes that shape its surface.