Mineral Physics Of The Mantle Transition Zone: Solid Solutions And Elasticity

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of the Mantle Transition Zone 14 Feb 2008. The composition of the mantle transition region, characterized by anomalous 2–3% owing to uncertainties in the mineral physics parameters. solid solution to high pressure: implications for the transition zone. Bass, J. D. Elasticity of pyrope and majorite-pyrope solid solutions to high temperatures. Catalog Record: Mineral physics of the mantle transition zone. Mutually consistent estimates of upper mantle composition from substitutions on the elastic properties of mantle minerals and estimate the consequences for the. mantle and transition zone depths, in agreement with seismic tomographic models. temperature derived from mineral physics e.g.. Karato, 1993 Karato Indeed the main components of mantle rocks are all solid solutions,. Elasticity of Majorite and a Majorite-Pyrope solid solution to high. Mineral Physics Of The Mantle Transition Zone: Solid Solutions And Elasticity. Book author: Boris Kiefer. Size: 8.49mb. Hash: The Upper Mantle and Transition Zone Seismic discontinuities phase transitions elastic properties equations of state. and elasticity of garnet solids solutions, and application to a pyrolite mantle.