

New Concepts in Global Tectonics

NEWSLETTER

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The often quoted explanation of erosion to account for high horizontal stresses at shallow depths is demonstrated to be fallacious: tectonic effects are necessary and these result from geoid stresses associated with polar wander. In situ stress measurements, mining experience and reservoir induced seismicity reveal that the Earth crust is in a state of incipient failure.	
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Using Coulomb's law and the energy of deformation as the material's critical state criteria, areas of critical state of the material were calculated. The analysis of deep geophysical section in the Asia-Pacific continental margin reveals a remarkable correspondence between the calculate stresses, gravitational, heat flow, magnetic anomalies, seismological/electrical models.	
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A broad, globe-encircling low-gravity belt runs from Siberia, through India, Australia, Antarctica, Brazil to Canada. The belt forms tectonically stable Archean shields and is underlain by fast mantle which extends to the core-mantle boundary.	
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