



## Satellite Detection of the Convection Generated Stresses in Earth

---

By Han-Shou Liu

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. We review research developments on satellite detection of the convection generated stresses in the Earth for seismic hazard assessment and Earth resource survey. Particular emphasis is laid upon recent progress and results of stress calculations from which the origin and evolution of the tectonic features on Earth's surface can be scientifically addressed. An important aspect of the recent research development in tectonic stresses relative to earthquakes is the implications for earthquake forecasting and prediction. We have demonstrated that earthquakes occur on the ring of fire around the Pacific in response to the tectonic stresses induced by mantle convection. We propose a systematic global assessment of the seismic hazard based on variations of tectonic stresses in the Earth as observed by satellites. This space geodynamic approach for assessing the seismic hazard is unique in that it can pinpoint the triggering stresses for large earthquakes without ambiguities of geological structures, fault geometries, and other tectonic properties. Also, it is distinct from the probabilistic seismic hazard assessment models in the literature, which are based only on extrapolations of available earthquake data. This item ships...



**READ ONLINE**  
[ 2.37 MB ]

### Reviews

*The ebook is great and fantastic. We have read and i also am sure that i am going to likely to go through once again again down the road. Once you begin to read the book, it is extremely difficult to leave it before concluding.*

-- **Erica Turcotte**

*The publication is great and fantastic. It is packed with knowledge and wisdom You will like how the article writer publish this publication.*

-- **Mrs. Alta Kling V**