Pre-Earthquake signals are advanced warnings of a larger seismic event. A better understanding of these processes can help to predict the characteristics of the subsequent mainshock. *Pre-Earthquake Processes: A Multidisciplinary Approach to Earthquake Prediction Studies* presents the latest research on earthquake forecasting and prediction based on observations and physical modeling in China, Greece, Italy, France, Japan, Russia, Taiwan, and the United States.

**Volume highlights include:**

- Describes the earthquake processes and the observed physical signals that precede them
- Explores the relationship between pre-earthquake activity and the characteristics of subsequent seismic events
- Encompasses physical, atmospheric, geochemical, and historical characteristics of pre-earthquakes
- Illustrates thermal infrared, seismo-ionospheric, and other satellite and ground-based pre-earthquake anomalies
- Applies these multidisciplinary data to earthquake forecasting and prediction

Written for seismologists, geophysicists, geochemists, physical scientists, students and others, *Pre-Earthquake Processes: A Multidisciplinary Approach to Earthquake Prediction Studies* offers an essential resource for understanding the dynamics of pre-earthquake phenomena from an international and multidisciplinary perspective.
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