



# Active Tectonics: Earthquakes, Uplift, and Landscape

*Edward A. Keller*

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*Active Tectonics* is a carefully organized, easily understandable book. Extremely current throughout, this book thoroughly explores the effects of earthquakes and active tectonic systems on humans, geomorphic systems, and Earth's topography. Complete with numerous case studies in a variety of regions, the very latest advances in the field, separate quantitative techniques boxed sections, and a host of pedagogical aids. This comprehensive book focuses on new advances in the technology and new applications to geology and tectonics. Increased material on Quaternary chronology, including lichen chronology and micro stratigraphy of desert varnish. New studies, including research in the Olympic Mountains, Nepal, Australia, Taiwan, the Himalaya, and the New Madrid seismic zone of the central United States. New techniques such as cosmogenic surface-exposure dating, argon and helium geobarometry and geothermometry, regional hypsometric analysis using digital elevation models, geodetic positioning, and coupled geodynamical computer simulations of topographic evolution are covered. Covers a number of regions with case studies including: Alaska; Pacific Northwest; California; The basin and range; Midwest; and East Coast. Ideal for beginning readers in active tectonics, geomorphology and natural hazards. This book may also be of interest to city planners, seismic engineers, and other non-geologists.

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