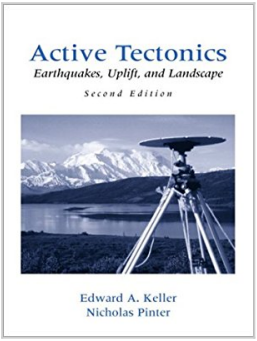

Active Tectonics: Earthquakes, Uplift, and Landscape (2nd Edition)

By Nicholas Pinter

Active Tectonics: Earthquakes, Uplift, and Landscape (2nd Edition) By Nicholas Pinter

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 hyposometric 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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Editorial Review

From the Publisher
Through lucid, carefully organized exposition, this text makes the study of active tectonics (earthquakes in the present and recent past) easily understandable. Extremely current throughout, this text 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.

From the Back Cover
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Active tectonics is the study of dynamic tectonic processes that shape the landscape and have an impact on human society. Tectonic geomorphology is the part of active tectonics that is concerned with landforms produced by tectonic processes and the application of geomorphic principles to tectonic problems. Tectonic geomorphology increasingly has become one of the principal tools in a variety of applications, including identification of active faults, formation of geologic structures, seismic-hazard assessment, and the study of landscape evolution. Tectonic geomorphology has proven to be useful in these applications because tectonically produced landforms are created and preserved over time intervals ideal for recording landscape change.

This book requires a basic knowledge of geologic principles. It is appropriate for upper-division undergraduate students, graduate students, and others who work in the ,fields of geology, geomorphology, and earthquake studies. In universities, this book is appropriate for classes in active tectonics, tectonic geomorphology, earthquake geology, and geomorphology.

The field of active tectonics has expanded rapidly during the past decade or so, but it remains at the cutting edge of geologic research. Space-based positioning, analysis of digital topography, and new dating techniques are bringing a whole new class of information to studies of the dynamic Earth. Advances in topics such as buried reverse faulting, active fold growth, earthquake recurrence, climate change, isostasy, and long-term landscape evolution continue to refine and redefine our understanding of tectonic and geomorphic

processes.

We hope the readers of this book will find it to be an up-to-date source of information, as well as a solid foundation for understanding future advances in the fields of active tectonics and tectonic geomorphology.

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From reader reviews:

Donna Barragan:

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Exactly why? Because this Active Tectonics: Earthquakes, Uplift, and Landscape (2nd Edition) is an

unordinary book that the inside of the reserve waiting for you to snap that but latter it will surprise you with the secret it inside. Reading this book beside it was fantastic author who also write the book in such amazing way makes the content inside of easier to understand, entertaining approach but still convey the meaning completely. So , it is good for you for not hesitating having this any more or you going to regret it. This excellent book will give you a lot of advantages than the other book possess such as help improving your expertise and your critical thinking approach. So , still want to postpone having that book? If I were you I will go to the publication store hurriedly.

Clyde Traynor:

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