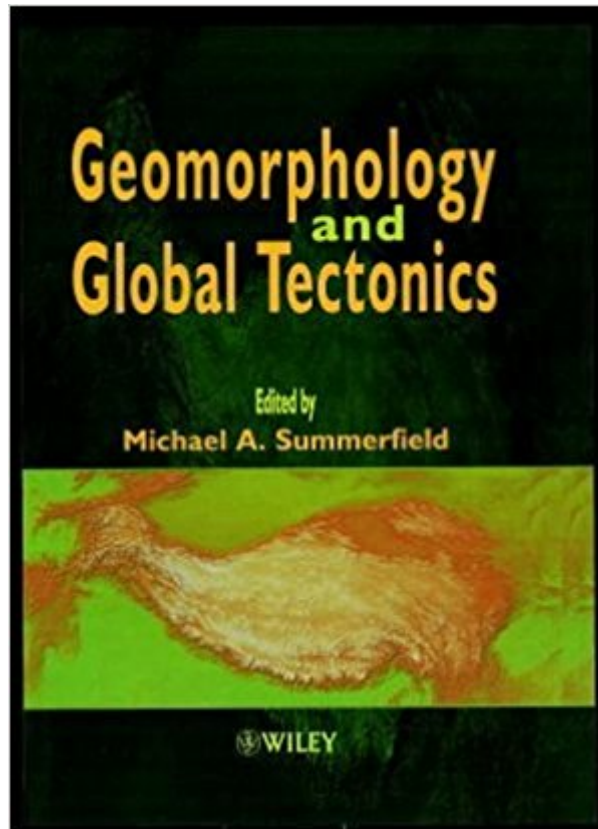




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Geomorphology And Global Tectonics



Synopsis

Presents the state of current research on the inter-relationships between global tectonics and macroscale landscape development across a wide range of topics and study areas. The last 10 years have witnessed a remarkable growth in interest in the relationships between global tectonics and the Earth's macroscale topographic features. This new research emphasis has emerged from a range of practitioners within the earth sciences, including geophysicists concerned with what can be learnt about tectonic processes from their topographic effects, geologists interested in the factors controlling erosion and the supply of material to sedimentary basins, and geomorphologists wanting to understand the role of tectonics in landscape evolution. Various technical developments and new sources of data have also contributed to these developments, such as the construction of coupled tectonic surface process numerical models of large-scale landscape development, the creation of large-area, high resolution digital elevation models, and the derivation of long-term denudational records using methods such as thermochronology. This book presents an overview of innovative research in the area and provides directions for future research. Each chapter provides up-to-date surveys of key research questions, reports on important current work and highlights outstanding research issues. It will be invaluable to those across the earth science community who are interested in the relationships between tectonics and geography.

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Customer Reviews

"This is a timely book which should be read by all earth scientists." -- Geoscientist, October 2000

This book explores new sources of information, including digital topographic data, remote sensing and thermochronology, that improve our understanding of the earth's topography and the rate at which it is being eroded. Presents analysis of large-scale tectonics and topography with tables, figure and some photographs to supplement the text and examines the ways in which geophysical data and modeling can help to explain the development of large-scale landscape features.

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