



Landscape Evolution in the United States: An Introduction to the Geography, Geology, and Natural History

By Joseph A. DiPietro

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Landscape Evolution in the United States is an accessible text that balances interdisciplinary theory and application within the physical geography, geology, geomorphology, and climatology of the United States. Landscape evolution refers to the changing terrain of any given area of the Earth's crust over time. Common causes of evolution (or geomorphology—land morphing into a different size or shape over time) are glacial erosion and deposition, volcanism, earthquakes, tsunamis, tornadoes, sediment transport into rivers, landslides, climate change, and other surface processes. The book is divided into three main parts covering landscape components and how they are affected by climactic, tectonic and ocean systems; varying structural provinces including the Cascadia Volcanic Arc and California Transpressional System; and the formation and collapse of mountain systems.

The vast diversity of terrain and landscapes across the United States makes this an ideal tool for geoscientists worldwide who are researching the country's geological evolution over the past several billion years.

- Presents the complexities of physical geography, geology, geomorphology, and climatology of the United States through an interdisciplinary, highly accessible approach
- Offers more than 250 full-color figures, maps and photographs that capture the systematic interaction of land, rock, rivers, glaciers, global wind patterns and climate
- Provides a thorough assessment of the logic, rationale, and tools required to understand how to interpret landscape and the geological history of the Earth
- Features exercises that conclude each chapter, aiding in the retention of key concepts

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Editorial Review

Review

"This text is written for first-semester university students and for general readers curious about the landscapes they live in or travel through in the United States."--Reference and Research Book News, August 2013

About the Author

Joseph A. DiPietro is Professor of Geology at the University of Southern Indiana. His research interests are in the fields of structural geology, tectonics, and metamorphism. He has been on the faculty at University of Southern Indiana since 1991 where he teaches Physical Geology, Landscapes and Geology of North America, Mineralogy, Structural Geology, and Tectonics. Most of his research has been on the tectonics of the Pakistan Himalaya where he mapped along the suture zone that separates India from Asia. He has also worked for the New York State Geological Survey mapping in the Adirondack Mountains and for the Idaho Geological Survey mapping in the Clearwater Mountains. He has also conducted mapping and research in the Green Mountains of Vermont.

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