



Dynamic Earth: An Introduction to Physical Geology

By Eric H. Christiansen, W. Kenneth Hamblin

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An up-to-date and comprehensive exploration of how Earth works New technologies has given us many different ways to examine the Earth. For example, we can penetrate deep into the interior of our planet and effectively X-ray its internal structure. With this technology comes an increased awareness of how our planet is continually changing and a fresh awareness of how fragile it is. Designed for the introductory Physical Geology course found in Geology, Earth Science, Geography, or Physical Science departments, Dynamic Earth: An Introduction to Physical Geology clearly presents Earth's dynamic geologic systems with their many interdependent and interconnected components. It provides comprehensive coverage of the two major energy systems of Earth: the plate tectonic system and the hydrologic cycle. The text fulfills the needs of professors by offering current content and a striking illustration package, while exposing students to the global view of Earth and teaching them to view the world as geologists. The book is divided in four parts. Part I presents Earth's materials and how they are created by geologic systems. Part II discusses the hydrologic system by examining subsystems chapter by chapter. Plate tectonics is the theme of Part III, with separate chapters on divergent, transform, and convergent boundaries, as well as mantle plumes?the subsystems of the tectonic system. In Part IV, the book looks back and applies the principles learned to see how Earth's resources formed and just how different Earth is when compared with other planets. The special attention to the illustrations helps students fully experience the excitement and satisfaction of visualizing and understanding geology, making Dynamic Earth: An Introduction to Physical Geology a unique exploration into our ever-evolving planet.

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