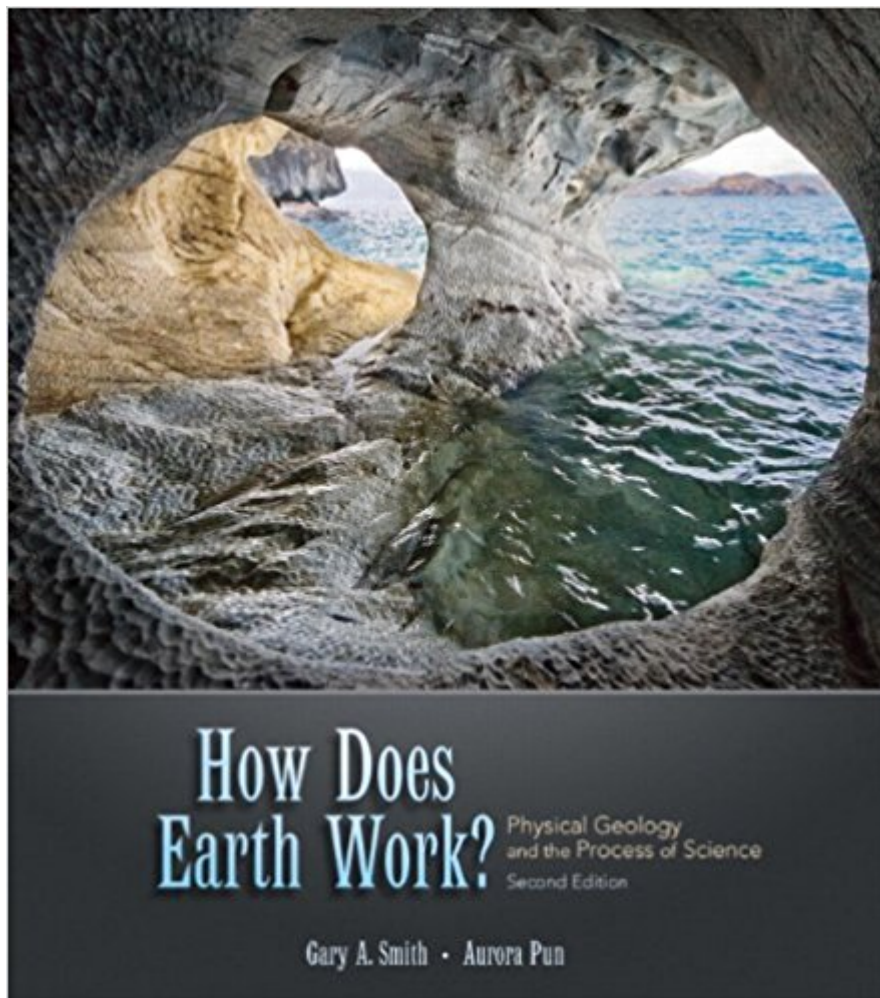




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How Does Earth Work? Physical Geology And The Process Of Science (2nd Edition)



Synopsis

With its unconventional yet highly effective approach, *How Does Earth Work?* demonstrates the process of science as a vehicle for investigating physical geology. Smith and Pun connect readers to the evidence behind the facts, instead of reproducing known facts—sparking interest in how science is practiced and how we know what we know. Like geology detectives, readers learn to think through the scientific process and uncover evidence that explains Earth's mysteries. Chapters open with an essay that places a curious investigator in a realistic field or lab setting to observe and ask questions about geological phenomena. Integrated real-world connections link topics to issues of societal concern or relevant experience to increase appreciation of the value of discovering science; and annotated illustrations with thoughtful descriptions help readers observe the hypotheses presented. **Why Study Earth?** **Minerals: Building Blocks of the Planet;** **Rocks and Rock-Forming Processes;** **Formation of Magma and Igneous Rocks;** **Formation of Sediment and Sedimentary Rocks;** **Formation of Metamorphic Rocks;** **Earth Materials as Time Keepers;** **Journey to the Center of Earth;** **Making Earth;** **Motion Inside Earth;** **Deformation of Rocks;** **Global Tectonics: Plates and Plumes;** **Tectonics and Surface Relief;** **Soil Formation and Landscape Stability;** **Mass Movements: Landscapes in Motion;** **Streams: Flowing Water Shapes the Landscape;** **Water Flowing Underground;** **Glaciers: Cold-Climate Sculptors of Continents;** **Shorelines: Changing Landscapes Where Land Meets Sea;** **Wind: A Global Geologic Process;** **Global Warming: Real-time Change in the Earth System.** **MARKET:** An interesting reference for anyone interested in learning more about Earth's processes.

Book Information

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Customer Reviews

Gary A. Smith is a Professor of Earth and Planetary Sciences at the University of New Mexico and Fellow of the Geological Society of America. He has an undergraduate geology degree with a specialty in geophysics from Bowling Green State University and a Ph.D. in geology from Oregon State University. Gary has strong interests in science education through his membership in the National Association of Geoscience Teachers and the National Science Teachers Association, and as Director of the Office of Support for Effective Teaching, the faculty development center at the University of New Mexico. Aurora Pun is a Lecturer in the Department of Earth and Planetary Sciences at the University of New Mexico. She holds an undergraduate degree in paleontology from the University of California, Berkeley and M.S. and Ph.D. degrees in Geology from the University of New Mexico, Institute of Meteoritics. Aurora has taught physical geology for over 14 years. Also a member of the National Association of Geoscience Teachers, Aurora has taught a course for teachers on developing inquiry-based K-12 curricula in the earth and space sciences.

I have other general textbooks on geology and earth science, but I find myself returning again and again to this volume for its well organized detail and the clarity of its descriptions. The figures and photos are especially well chosen, and I find myself in the company of writers who know how to speak to a lay person with enthusiastic interest in the subject matter. Valuable addition to all my other literature.

I've been using this in place of the second edition in my intro geology class. I have had no trouble learning the material or completing the assignments - it appears to have almost exactly the same content. It was also significantly cheaper. Decent textbook.

Book was in amazing condition. As a student renting books, this is a trade that I really like.

Well written, good questions for exams, lots of illustrations. I rented this from , but I plan to buy it at the end of the semester.

Man this class sucked. Nothing wrong with the book only rating the class.

Testbook for my EPS101

I never thought I'd keep this book after my class, but I did. The illustrations, explanations, and content in general made it a great textbook for my Earth Processes class. I learned more than I ever would have thought! Note: you'll never be able to resell it for even a fraction of the price.

In great condition

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