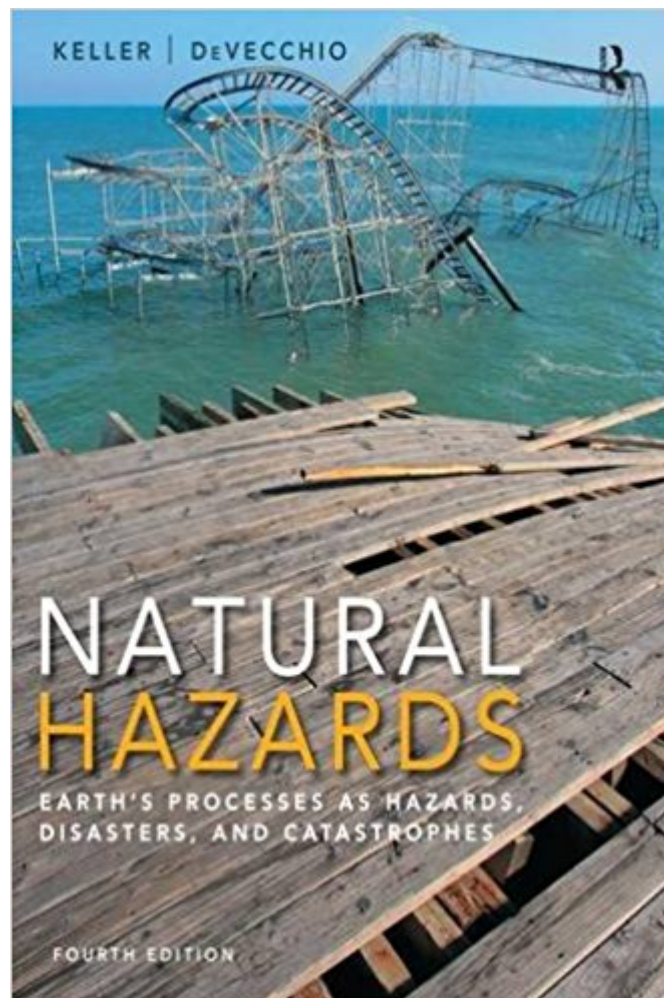




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# Natural Hazards: Earth's Processes As Hazards, Disasters, And Catastrophes



## Synopsis

Natural Hazards: Earth Processes as Hazards, Disasters and Catastrophes, Fourth Edition, is an introductory-level survey intended for university and college courses that are concerned with earth processes that have direct, and often sudden and violent, impacts on human society. The text integrates principles of geology, hydrology, meteorology, climatology, oceanography, soil science, ecology and solar system astronomy. The book is designed for a course in natural hazards for non-science majors, and a primary goal of the text is to assist instructors in guiding students who may have little background in science to understand physical earth processes as natural hazards and their consequences to society. Natural Hazards uses historical to recent examples of hazards and disasters to explore how and why they happen and what we can do to limit their effects. The text's up-to-date coverage of recent disasters brings a fresh perspective to the material. The Fourth Edition continues our new active learning approach that includes reinforcement of learning objectives with a fully updated visual program and pedagogical tools that highlight fundamental concepts of the text. This program will provide an interactive and engaging learning experience for your students. Here's how: Provide a balanced approach to the study of natural hazards: Focus on the basic earth science of hazards as well as roles of human processes and effects on our planet in a broader, more balanced approach to the study of natural hazards. Enhance understanding and comprehension of natural hazards: Newly revised stories and case studies give students a behind the scenes glimpse into how hazards are evaluated from a scientific and human perspective; the stories of real people who survive natural hazards, and the lives and research of professionals who have contributed significantly to the research of hazardous events. Strong pedagogical tools reinforce the text's core features: Chapter structure and design organizes the material into three major sections to help students learn, digest, and review learning objectives.

## Book Information

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## Customer Reviews

Edward Keller is a professor, researcher, writer, and most importantly, mentor and teacher to undergraduate and graduate students. Currently, Dr. Keller's students are working on earthquake hazards, how waves of sediment move through a river system following disturbance, and geologic control on habitat to endangered southern steelhead trout. He was born and raised in California (Bachelor's degree in Geology and Mathematics from California State University at Fresno, Master's degree in Geology from University of California at Davis), it was while pursuing his Ph.D. in Geology from Purdue University in 1973 that Ed wrote the first edition of Environmental Geology, the text that became the foundation of the environmental geology curriculum. Ed joined the faculty of the University of California Santa Barbara in 1976 and has been there since, serving multiple times as the chair of both the Environmental Studies and Hydrologic Science programs. In that time he has been the author on over 100 articles, including seminal works on fluvial processes and tectonic geomorphology. Ed's academic honors include the Don J. Easterbrook Distinguished Scientist Award, Geological Society of America (2004), Quatercentenary Fellowship from Cambridge University, England (2000), two Outstanding Alumnus Awards from Purdue University (1994, 1996), A Distinguished Alumnus Award from California State University at Fresno (1998), the Outstanding Outreach Award from Southern California Earthquake Center (1999). Ed and his wife Valery, who brings clarity to his writing, love walks on the beach at sunset and when the night herons guard moonlight sand at Arroyo Burro Beach in Santa Barbara. Duane DeVecchio is currently a researcher and adjunct professor at the University of California, Santa Barbara, where he earned his PhD in geology. Since starting his graduate education, Duane has devoted a significant amount of time to becoming an effective communicator of science to today's students. He is a passionate teacher and feels strongly that students need to develop the ability to critically evaluate data presented in numerous forms from various sources. He believes this is particularly important in today's world where the internet offers accessibility to vast amounts of information, yet the validity of this information is often questionable or misleading. Fundamental to teaching this skill is integrating data from his current and past research to illustrate to students the methodology and rigor of scientific investigations. Duane has a broad field-based background in the Earth sciences and likes to tell stories about his many months of living in trailers

in the middle of nowhere mapping rocks. For his Masters Degree and post-Masters research he conducted structural and stratigraphic analysis, as well as numerical dating of volcanic and volcanoclastic rocks in southeast Idaho and the central Mojave Desert of California, which record the Miocene depositional and extensional histories of these regions. His PhD research was aimed at resolving fault slip rates and quantifying the earthquake hazard presented by several active fault-related folds growing beneath urbanized southern California. Duane's current research interests focus on the timing and rates of change of Earth's surface due to depositional and erosional processes that result from climate change and tectonics. When Duane is not teaching or conducting research, he enjoys whitewater rafting, rock climbing, snowboarding, and camping with his partner, Christy.

It's a textbook so that pretty much tells you all you need to know. I have found multiple typo's in this book however which always make me chuckle since it's a science text.

Really nice book. I'll be using it for a class this fall. I'll post more after the class begins.

I rented this book for a class for summer, the book was in very good condition no missing pages. Very informative and consistent with my professors syllabus.

This will help me pass my Geohazards class.

Used this for a college class. Very straight forward.

Very interesting subject and book. It has a lot of topics that has sparked many debates about global warming, climate change and human contributions to the two. The book arrived in great time, but it has some stains on some of the pages.

Bought it brand new. Got the job done.

This book is a real thriller. Keeps me on the edge of my seat. I'm not finished with it yet, but my expectations are high for a finale that's out of this world.

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