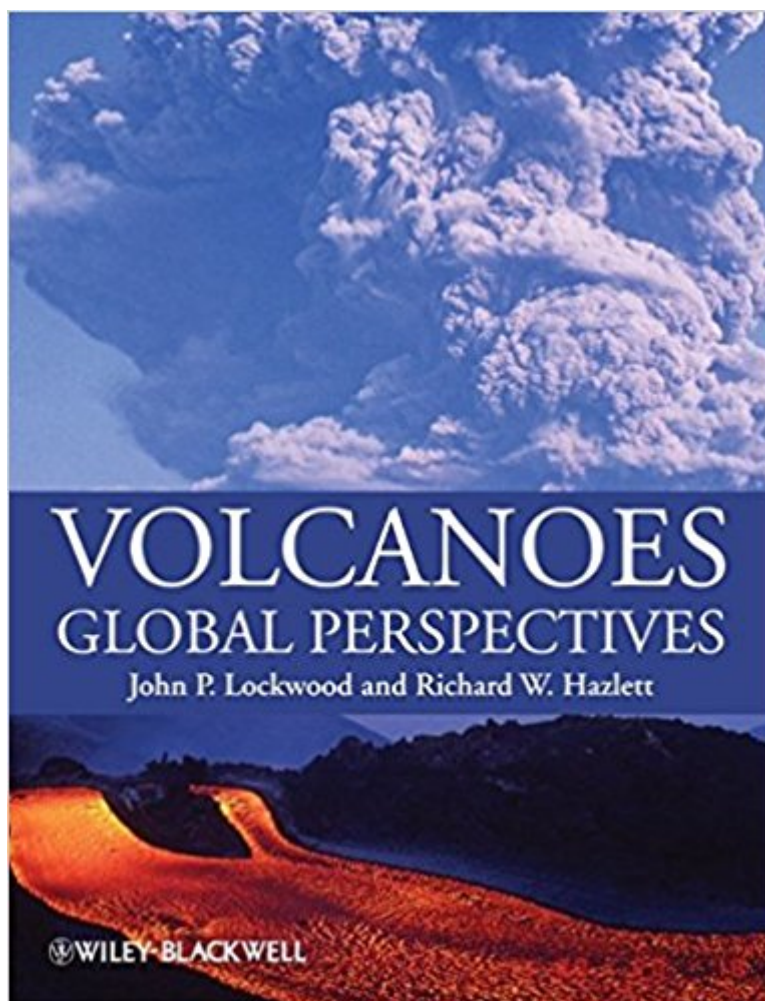


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# Volcanoes: Global Perspectives



## Synopsis

Volcanoes are essential elements in the delicate global balance of elemental forces that govern both the dynamic evolution of the Earth and the nature of Life itself. Without volcanic activity, life as we know it would not exist on our planet. Although beautiful to behold, volcanoes are also potentially destructive, and understanding their nature is critical to prevent major loss of life in the future. Richly illustrated with over 300 original color photographs and diagrams the book is written in an informal manner, with minimum use of jargon, and relies heavily on first-person, eye-witness accounts of eruptive activity at both "red" (effusive) and "grey" (explosive) volcanoes to illustrate the full spectrum of volcanic processes and their products. Decades of teaching in university classrooms and fieldwork on active volcanoes throughout the world have provided the authors with unique experiences that they have distilled into a highly readable textbook of lasting value. Questions for Thought, Study, and Discussion, Suggestions for Further Reading, and a comprehensive list of source references make this work a major resource for further study of volcanology. Volcanoes maintains three core foci: Global perspectives explain volcanoes in terms of their tectonic positions on Earth and their roles in earth history Environmental perspectives describe the essential role of volcanism in the moderation of terrestrial climate and atmosphere Humanitarian perspectives discuss the major influences of volcanoes on human societies. This latter is especially important as resource scarcities and environmental issues loom over our world, and as increasing numbers of people are threatened by volcanic hazards Readership Volcanologists, advanced undergraduate, and graduate students in earth science and related degree courses, and volcano enthusiasts worldwide. A companion website is also available for this title at [www.wiley.com/go/lockwood/volcanoes](http://www.wiley.com/go/lockwood/volcanoes)

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## Customer Reviews

• Overall I would highly recommend this work to anyone who wishes to understand volcanoes from a global perspective. (Bull Volcanol, 2011) "Volcanoes will satisfy everybody interested in this fascinating topic, but most of all this textbook is written for volcanologists, and advanced undergraduate and graduate students in Earth sciences." (Pure and Applied Geophysics, 2011) "This is an impressive new textbook on volcanoes written by two US volcanologists with considerable expertise. The text is informative, readable, well referenced and beautifully illustrated throughout with many helpful colour diagrams and photos . . . I expect many will purchase it and I strongly recommend it for all college libraries." (The Geographical Journal, 2011) "But these caveats notwithstanding, Featherstone has written an excellent and often passionate account of the relational geographies of counter-global resistance that makes important contributions to debates on social movements, resistance, and space; it will become a landmark text in the political geographies of resistance." (Area, 2011) "Overall I would highly recommend this work to anyone who wishes to understand volcanoes from a global perspective." (Bull Volcanol, 2011) "Essential. Upper-division undergraduates through professionals; general readers". (Choice, 1 November 2010) Included on the Outstanding Academic Title 2010 list by Choice Magazine (1 January 2011)

Volcanoes are essential elements in the delicate global balance of elemental forces that govern both the dynamic evolution of the Earth and the nature of Life itself. Without volcanic activity, life as we know it would not exist on our planet. Although beautiful to behold, volcanoes are also potentially destructive, and understanding their nature is critical to prevent major loss of life in the future. Richly illustrated with over 300 original color photographs and diagrams the book is written in an informal manner, with minimum use of jargon, and relies heavily on first-person, eye-witness accounts of eruptive activity at both "red" (effusive) and "grey" (explosive) volcanoes to illustrate the full spectrum of volcanic processes and their products. Decades of teaching in university classrooms and fieldwork on active volcanoes throughout the world have provided the authors with unique experiences that they have distilled into a highly readable textbook of lasting value. Questions for Thought, Study, and Discussion, Suggestions for Further Reading, and a comprehensive list of source references make this work a major resource for further study of volcanology. Volcanoes maintains three core foci: Global perspectives explain volcanoes in terms of their tectonic positions

on Earth and their roles in earth history Environmental perspectives describe the essential role of volcanism in the moderation of terrestrial climate and atmosphere Humanitarian perspectives discuss the major influences of volcanoes on human societies. This latter is especially important as resource scarcities and environmental issues loom over our world, and as increasing numbers of people are threatened by volcanic hazards Readership Volcanologists, advanced undergraduate, and graduate students in earth science and related degree courses, and volcano enthusiasts worldwide.

Perfect for an advanced college-level class.

This is an amazing book! If you want a deep dive into all aspects of volcanoes this is a must read!

Excellent introduction.

In one word: Awesome! If anybody interested in volcanoes, this is the book you need! 10/10

I teach a college-level geology course and courses in introductory earth science at a high school in Westchester County (NY). In all of my classes, we spend a good deal of time learning about volcanoes and the processes that create them. Over the years, I have developed an extensive library of geology-related books, especially of ones that discuss volcanic processes. While there are some decent books on the market, it has been difficult to find one that is appropriate for both high school-level and college (introductory-level) courses. Either the books are too simplistic (written mainly for elementary school-age students), or are too technical (more appropriate for graduate level students). For years, I have been looking for the perfect book on volcanoes that would address the needs of my classes. "Volcanoes, Global Perspectives" by Lockwood and Hazlett is that perfect book. I have been an admirer of both Lockwood and Hazlett for years. I have led many geology field trips to Hawaii for my students over the past 12 years. Lockwood has published MANY articles about Hawaiian geology and Hazlett wrote the well-known Roadside Geology of Hawaii (the best of the Roadside series in my opinion) Roadside Geology of Hawai'i. So, I was delighted when I saw that they had teamed up to write, what I am sure will become a classic text, a book on volcanoes. I was also excited when I read the Preface and learned that the book started as an update of Gordon Macdonald's classic "Volcanoes" from 1970 (ended up being a complete rewrite since our understanding of volcanic processes has changed significantly in the last 40 years). "Volcanoes,

"Global Perspectives" is extremely well written and is actually an engaging read--a rarity in science textbooks (although, I would hesitate to refer to this as a mere textbook). It is clear from their writing that both authors have lived and breathed volcanoes throughout their careers and are passionate about the issues they discuss. In this way, the book is inspirational--which is not something I can say of any other book on this topic that I have read. The diagrams are outstanding and provide excellent visual explanations of the accompanying text. The photos are also very good (although some appear to be a little dated given the quality of digital imaging that many readers have become used to--overall, this a very minor issue and does not affect the quality of the book in any way). I also like the organization of the book--in particular the topics that are chosen for the various chapters. The four main topics (The Big Picture, Volcanic Eruptions and Their Products, Volcanic Landforms and Settings and Humanistic Volcanology) are well thought out and creative (I especially appreciated the sections on "The Big Picture" and "Humanistic Volcanology"--two topics that are often missing in other books on volcanoes). The discussion of Humanistic Volcanology was particularly interesting and provided the oft-omitted connection between the lives of humans and volcanoes. Even the "basic" introductory chapters were exceptional. For example, rather than the typical chapter on mineral and rock formation, there is an outstanding chapter called the Physics and Chemistry of Melting. This is one of the most difficult concepts for my students to understand and I have struggled to find a decent explanation of the topic. Instead of focusing on mineral and rock formation as separate topics, this chapter incorporates the "basics" into a detailed, yet easy to understand discussion of HOW and WHY melting occurs--from an elemental and atomic perspective. It is exactly the approach that I have been looking for and am excited to incorporate it into my classes this year. I recommend this book for students and teachers of geology as well as for anyone even remotely interested in the science of volcanoes. It is truly exceptional. An aside: I was fortunate to meet John Lockwood this summer while leading my students on one of my geology field trips in Hawaii Volcanoes National Park. The caretaker of the house we were renting happened to be friends with John (who lives near the park) and arranged for a meeting with our group. Despite being extremely busy, John took a full hour out of his day to meet us at the park, on the rim of Kilauea Caldera. While my students ranged in age from 14 to 16, John treated them with great respect and kindness, valued their questions, and provided an excellent lesson on volcanoes that my students will never forget. It was the highlight of our two-week trip.

This is a remarkable book on volcanoes that is more than a textbook for "Volcanologists, advanced undergraduate, and graduate students in earth science" it is an engaging story about volcanoes and

how they behave. You need only read a few paragraphs and you know that the senior author has been up close and seen it happen, and in addition is well versed on the latest techniques and thinking regarding volcanic activity. You can see the red and orange incandescence of fountaining lava, choke on the sulfur gases, feel the ash in your eyes, vibrate with the earthquakes, and hear the grinding of the aa lava flows. Because of this personal human style, the book is hard to put down--even for a student. It marks a quantum jump in writing about natural phenomena. If I were a scientist traveling to monitor and study an ongoing volcanic eruption, or if I were a curious, outdoor-oriented person with an interest in natural history preparing to visit a volcano alive or dormant, this is the one book I would take along.

As an undergrad student utilizing this text for our "advanced" volcanism class; although I am still reading this text, Lockwood & Hackett have created what is most probably my favorite textbook that I have had the pleasure to read. The authors keep you thoroughly engaged, it is not too complex, and not too simple. The concepts are reiterated multiple times but not in a way that is redundant. Highly recommended for any geologist/ volcanology student, this is the first textbook I have gone out of my way to review I am enjoying it so much. Cheers to Lockwood & Hackett for making this fantastic piece of literature.

A definitive presentation of volcanoes that should be of interest to academics, environmental policy makers, and the casual reader interested in this geologic phenomena. Lockwood adds to previous understanding of volcanoes with additional information based on years of geologic mapping both current and dormant volcanic centers. Of interest are the environmental impacts from ash fall and the efforts to redirect lava flow.

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