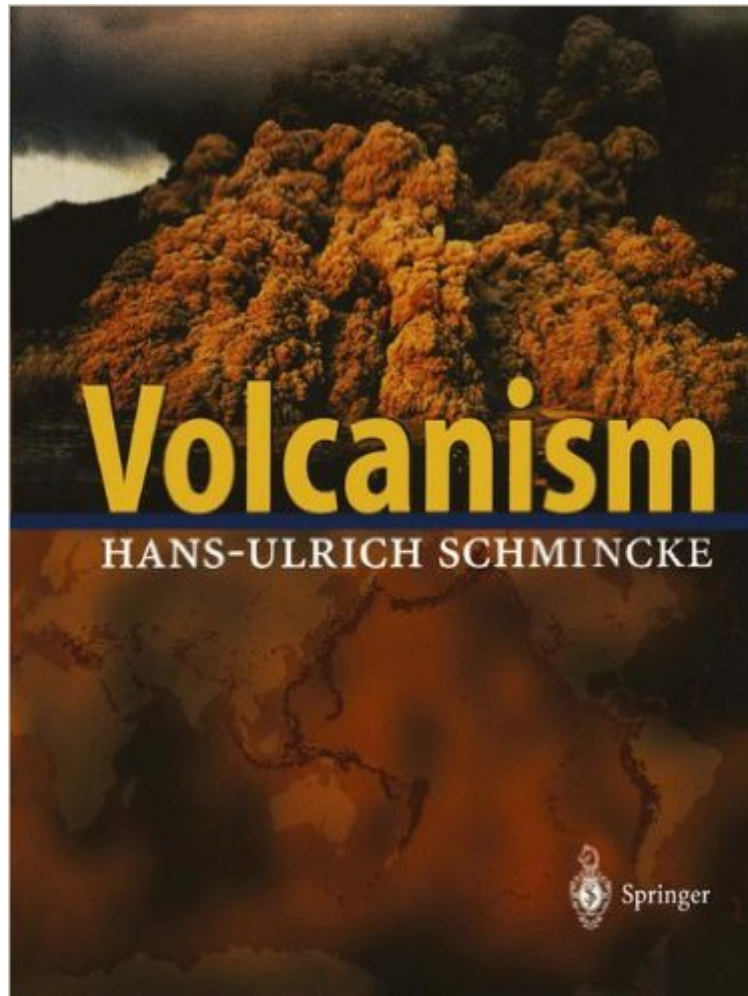


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# Volcanism



## Synopsis

Volcanic eruptions are the clear and dramatic expression of dynamic processes in planet Earth. The author, one of the most profound specialists in the field of volcanology, explains in a concise and easy to understand manner the basics and most recent findings in the field. Based on over 300 color figures and the model of plate tectonics, the book offers an insight into the generation of magmas and the occurrence and origin of volcanoes. The analysis and description of volcanic structures is followed by process oriented chapters discussing the role of magmatic gases as well as explosive mechanisms and sedimentation of volcanic material. The final chapters deal with the forecast of eruptions and their influence on climate. Students and scientists of a broad range of fields will use this book as an interesting and attractive source of information. Laypeople will find it a highly accessible and graphically beautiful way to acquire a state-of-the-art foundation in this fascinating field. "Volcanism by Hans-Ulrich Schmincke has photos of the best quality I have ever seen in a text on the subject" | In addition, the schematic figures in their wide range of styles are clear, colorful, and simplified to emphasize the most important factors while including all significant features" | "I have really enjoyed reading and rereading Schmincke's book. It fills a great gap in texts available for teaching any basic course in volcanology. No other book I know of has the depth and breadth of Volcanism" | I have shared Volcanism with my colleagues to their significant benefit, and I am more convinced of its value for a broad range of Earth and planetary scientists. Undoubtedly, I will use Volcanism for my upcoming courses in volcanology. I will never hesitate to recommend it to others. Many geoscientists from very different subdisciplines will benefit from adding the book to their personal libraries. Schmincke has done us all a great service by undertaking the grueling task of writing the book " and it is much better that he alone wrote it." Stanley N. Williams, ASU Tempe, AZ (Physics Today, April 2005) "Schmincke is a German volcanologist with an international reputation, and he has done us all a great favour because he sensibly channelled his fascination with volcanoes into writing this beautifully illustrated book... [he] tackles the entire geological setting of volcanoes within the earth and the processes that form them... And, with more than 400 colour illustrations, including a huge number of really excellent new diagrams, cutaway models and maps, plus a rich glossary and references, this book is accessible to anyone with an interest in the subject." New Scientist (March 2004) "The science of volcanology has made tremendous progress over the past 40 years, primarily because of technological advances and because each tragic eruption has led researchers to recognize the processes behind such serious hazards. Yet scientists are still learning a great deal because of photographs that either capture those processes in action or show us the critical factors left behind in the rock

record. Volcanism by Hans-Ulrich Schmincke has photos of the best quality I have ever seen in a text on the subject. I found myself wishing that I had had the photo of Nicaragua's Masaya volcano, which was the subject of my dissertation, but it was Schmincke who was able to include it in his book. In addition, the schematic figures in their wide range of styles are clear, colorful, and simplified to emphasize the most important factors while including all significant features. The book's paper is of such high quality that at times I felt I had turned two pages rather than one. I have really enjoyed reading and rereading Schmincke's book. It fills a great gap in texts available for teaching any basic course in volcanology. No other book I know of has the depth and breadth of Volcanism. I was disappointed that the text did not arrive on my desk until last August, when it was too late for me to choose it for my course in volcanology. I am also disappointed about another fact—the book's binding is already becoming tattered because of my intense use of it! Schmincke is a volcanologist who, in 1967, first published papers on sedimentary rocks of volcanic origin, the direction traveled by lava flows millions of years ago, and the structures preserved in explosive ignimbrites, or pumice-flow deposits, that reveal important details of their formation. Since then, his studies in Germany's Laacher See, the Canary Islands, the Troodos Ophiolite of Cyprus, and many other regions have forged great fundamental advances. Such contributions have been recognized with his receipt of several international awards and clearly give him a strong base for writing the book. However, as a scientist who has focused on the challenges of monitoring the very diverse activities of volcanoes, I think that the text's overriding emphasis on the rock record has its cost. The group of scientists who are struggling with their goals to reduce or mitigate the hazards of the eruptions of tomorrow need to learn more about the options of technology, instrumentation, and methodology that are currently available. More than 500 million people live near the more than 1500 known active volcanoes and are constantly facing serious threats of eruptions. An extremely energetic earthquake caused the horrific tsunamis of 2004. However, the tsunamis of 1792, 1815, and 1883, which were caused by the eruptions of Japan's Unzen volcano and Indonesia's Tambora and Krakatau volcanoes, each took a similar toll. " ( Stanley N. Williams, PHYSICS TODAY, April 2005)

## **Book Information**

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## Customer Reviews

As a glance at some of my other reviews may indicate, I am very interested in nearly all aspects of volcanoes and volcanology. This is by far the best book that I have ever read on the general subject. The photography is in four-color format and is about the best I have ever encountered on the topics. The book is jam-packed with illustrative diagrams of high quality, and both photos and diagrams follow the text in a crisp, well-crafted manner. The book was obviously written in German first, and sometimes the grammatical translations seem awkward, but remain easily understandable. This in no way detracts from the substantive content of the book. Not surprisingly, many of the illustrations are from sites of European volcanism, such as the Lacher See region of Rhineland, Germany, and the Canary Islands. The discussion of the extremely violent, but hardly known, Lacher See event is well done, and should be carefully perused by any reader. Dr. Schminke reveals a history that is hardly known about, and sorely unappreciated, by readers on this side of the Atlantic. A repetition of the event today, which is certainly not out of the question, would be a major disaster for Western Europe. While the book uses many terms not familiar to one not acquainted with geology, these are explained for the most part, so the book should be enjoyed by anyone with a high school background in science. Of the many new books on volcanoes in recent years, this is unquestionably the finest one in my belief. I recommend it very highly to anyone who really enjoys the subject of volcanoes.

A very basic introduction to volcanology; if you're not going to be a volcanologist, this book will work well for you. If you ARE actually interested in volcanology, however, you probably want to go for a more advanced text (Encyclopedia of Volcanoes, etc) as a supplement. The book is well organized for the most part, featuring fairly succinct chapters that progress through fundamentals like rheology, morphology, deposit types, tectonic scenarios, and hazards and monitoring, supplemented with case studies of well-documented 'archetypal' volcanoes and eruptions. The

(new) copy I got came on really odd paper; it wasn't glossy like normal textbook paper, and the pictures and photos were rather dull as a result. A classmate obtained a used copy that was printed on 'normal' paper that had much better quality on the pictures -- I was able to notice details that were indiscernible in the photos in my book even under close inspection. That being said, it's a textbook, not a picture book, so that's probably not going to be a major sticking point for most people. Chances are, you're buying this book it's because it's a required text for your volcanology class, and for that purpose, it's perfectly suitable (and pretty reasonably priced). As an added bonus, the author's dry sense of humor does pop up in a few places here and there to break up the monotony.

I am a geology major with a specialty in volcanology. My professor required this for my last course. It has stunning pictures and illustrations on nearly every page. I could use it as a coffee table book, but it is poorly organized and is all over the place. If you are buying this with an outstanding knowledge of volcanism already, it is a great book. I don't know if it would be great for newbies. However, considering the lack of modern volcanology textbooks, this one is probably one of the best resources you are going to find.

I didn't have the opportunity to take a volcanology class as a student, so bought this book to read for "fun." Dr. Schmincke's text is easy to understand (even when he explains relatively difficult concepts) and the photographs and illustrations are great - straightforward, colorful, and all definitely add to the text. As a former college geology instructor, I appreciate a book like this and, just from a pure enjoyment perspective - "Volcanism" was super; I had a tough time putting it down.

This is a good book to get a grasp on basic volcanology. It covers a lot of stuff and has some great photos and diagrams. It doesn't get into most areas in too much depth but it is certainly a book that can provide a solid foundation for people interested in volcanoes and closely related aspects of geology. A book that I will keep too...I have gone back and referenced it several times after initially reading it.

The book is powerfull mostly for beginner and intermediate skill in volcanology. Many nice images and pictures make the book easy to digest eventhough read by the very beginner people. The complex earth system explained simply but sharply to the point.

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