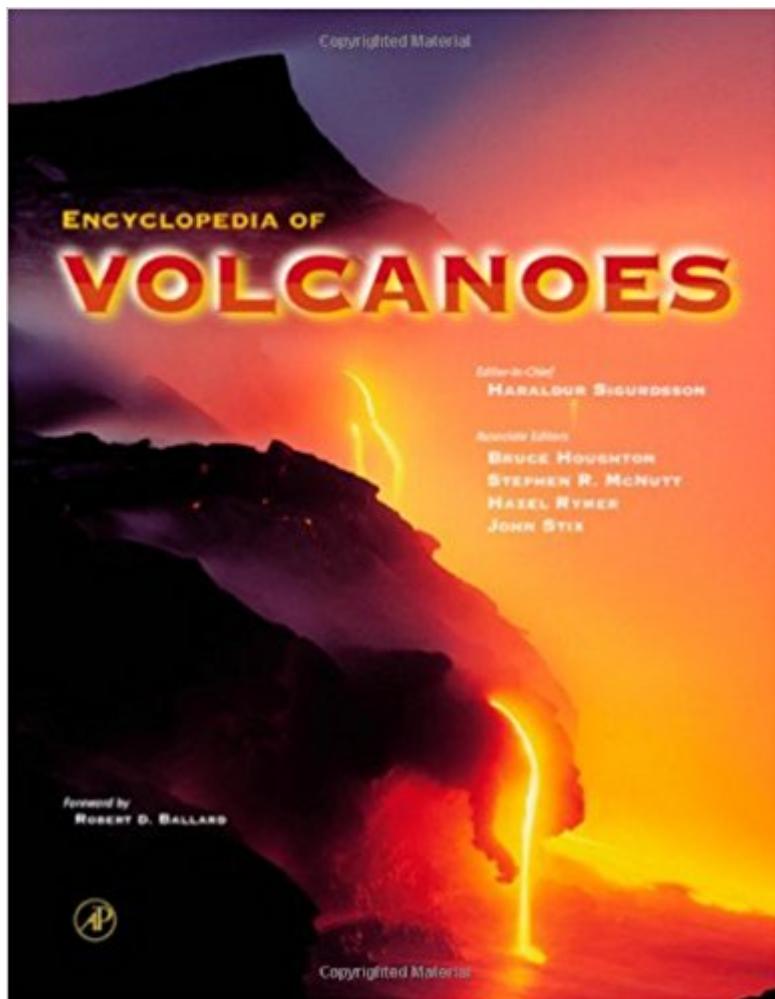


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# Encyclopedia Of Volcanoes



## Synopsis

Volcanoes are unquestionably one of the most spectacular and awe-inspiring features of the physical world. Our paradoxical fascination with them stems from their majestic beauty and powerful, if sometimes deadly, destructiveness. Notwithstanding the tremendous advances in volcanology since ancient times, some of the mystery surrounding volcanic eruptions remains today. The Encyclopedia of Volcanoes summarizes our present knowledge of volcanoes. Through its thematic organization around the melting of the earth, it provides a comprehensive source of information on the multidisciplinary influences of volcanic eruptions--both the destructive as well as the beneficial aspects. The majority of the chapters focus on the geoscience-related aspects of volcanism (radioactive heat source, melting rock, ascent of magma, surface phenomena associated with exiting magma, extraterrestrial volcanism, etc.). In addition, complementary chapters discuss the multidisciplinary aspects of volcanism; these include the history of volcanology, geothermal energy resources, interaction with the oceans and atmosphere, health aspects of volcanism, mitigation of volcanic disasters, post-eruption ecology, and the impact of eruptions on organismal biodiversity. In addition to its appeal to educators, students, and professional and amateur scientists, the Encyclopedia of Volcanoes functions as an important information resource for administrators and officials responsible for developing and implementing volcanic hazard mitigation around the world. \* The first and only reference work to cover all aspects of volcanology\* More than 80 separate peer-reviewed articles--all original contributions by leading authors from major institutions of science around the world, commissioned for this work\* An integrated transition from the volcanic process through hazards, risk, and societal impacts, with an emphasis on how volcanoes have influenced and shaped society\* Convenient single-volume format with topics arranged thematically--articles provide coverage of nine different aspects of volcanology\* Each entry in the Encyclopedia begins with an outline of the article content and a concise definition of the subject of the article\* 3,000 Glossary entries explain key terms\* Further Reading lists appear at the end of each entry\* Extensive cross-referencing system links related articles\* Sixteen pages of color will convey the science and excitement of this often violent phenomena \* Large 8 1/2" x 11" page size, easy-to-read double-column format

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## Customer Reviews

This impressive work covers all aspects of volcanism. Written by over 100 international scholars in the field, the articles are arranged in nine thematic sections, beginning in the center of the earth with the origin and transport of magma, moving through the different types of eruptions, and finally investigating volcanic interactions, hazards, and economics. There is even a section on extraterrestrial volcanism. Geared for college students and researchers, the well-written articles include a glossary that defines terms within the context of the article, which is very helpful to readers unfamiliar with the terminology. A list of related articles and a bibliography of further readings provide users with additional sources of information. The encyclopedia also includes a catalog of historically active volcanoes on Earth. Works such as *The Encyclopedia of Earthquakes & Volcanoes* (Facts on File, 1994) are nowhere near as comprehensive as this volume. The thematic organization allows the user the choice of reading a single article on a limited topic or reading the entire section for a full overview. In fact, the entire work could be read from beginning to end, if desired. An excellent source for those who want more than general information on any aspect of volcanology, this volume is highly recommended for academic libraries.-Teresa Berry, Univ. of Tennessee Lib., Knoxville Copyright 2000 Reed Business Information, Inc.

The centrality of volcanic processes in the history of our planet would be hard to overstate. Further, their impact on our environment continues to be significant. This volume is the first sophisticated attempt at a comprehensive reference work about volcanoes and volcanic processes. The editors are respected scientists who have published and lectured extensively on volcanology (the study of volcanoes). Articles were contributed by more than 100 international experts. Structure is thematic, with the 82 extensive articles organized into nine sections. After two very informative introductory articles that give an overview of volcanism and the history of volcanology, the first eight sections

address the physical processes and materials produced by those processes. Part one is a discussion of magma; parts two through four address various types of volcanoes, eruptions, and materials flows. Volcanism elsewhere in the solar system, an area of growing interest, is the subject of part five. Parts six through eight address the interaction of volcanic events with other physical systems on Earth, such as the atmosphere, oceans, glaciers, and lakes. The final major section treats the economic and cultural aspects of volcanoes, with interesting essays on such topics as art, literature and film, economics, and archeology. The nine sections are followed by two appendixes. One lists units of measurement and conversion factors. The second is a comprehensive catalog of known volcanoes. A very thorough alphabetical index completes this outstanding presentation. The articles average about 16 pages in length. Each article is a full-length treatment of a concept or set of concepts and begins with an outline of the article and a glossary of terms. At the end of each article is a list of cross-references to other articles within the encyclopedia and a brief bibliography. The entries are liberally illustrated with photographs, maps, diagrams, and graphs. Also included are 12 color plates. The articles can be quite technical but not any more than they need to be in giving serious academic treatment to the topic. Readers who are less familiar with this area of geology will find the glossary in each article to be very useful. However, the book will likely not be accessible to most readers below the college level. For readers who are looking for a simpler overview of many of the topics treated here, Facts On File's Encyclopedia of Earthquakes and Volcanoes [RBB Ap 15 94] is probably a better choice. This volume is indispensable for anyone who is serious about understanding volcanoes on a sophisticated level. From the highly useful overview of specific topics and processes to the definitions of particular terms, there is no better or more comprehensive work available--nor is there likely to be. Given the high quality of the material, it is unfortunate that the publisher did not choose to offer a higher quality of binding. Even so, this valuable resource is highly recommended for larger public and academic libraries.

As someone who is researching volcanoes for a novel, I have found this textbook to be immensely useful! The terminology is well-described and the chapters are well-organized. As someone with no previous study in geology outside of High School, this textbook was useful and easy to read.

Great compendium of volcanology. Especially thrilling to an older geologist to see the advances in knowledge since we got out of school; for instance, seismic tomography has mapped actual magma chambers, which were semi-mythic suppositions in my undergrad day; and lo, there is the anatomy of the very volcanoes I grew up under. The book comprises dozens of specially submitted articles

by diverse international authors, so you get many perspectives, not just of different disciplines, but of authors' sense of how they relate to others. Flawed by abundant typos. The editing of this book is a great advance over say *The Solar System* by the same Academic Press, which was a mangled turnip; but they still have a ways to go. It is disappointing to see major scientific works bungled by bottom line that slashes proofing. NASA is probably largely responsible for the *Solar System* mess (Sally Ride, take a course in remedial english!). Geologists are a lot more meticulous than astronauts. But the buck shd stop with the publisher. So buy this book and complain to Academic Press. Buy it before it goes out of print and you have to kick yourself; it will be long before the like comes again.

Exceptional fount of information. There is very little that one would need to know about volcanoes outside of this book

Love volcanoes and hope to learn something from this book. I'm sure since the whole damn book is about volcanoes

Excellent resource for those seeking info on volcanoes. This very large book is filled with well-written entries by a variety of authors on vulcanology, including info about volcanoes on other planets. A must-have.

If you love volcanoes and want a comprehensive list of the volcanoes of the world, this is the "gotta have" piece.

This book needs to be in the library for anyone seriously interested in volcanoes, their inner workings, and amazing outward expression upon the landscapes of the world.

A really deep knowledge base for the audience from beginners to PhDs. Everything inside if your start geo sciences related to vulcanology.

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