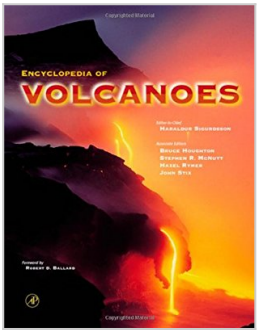

Encyclopedia of Volcanoes

By Haraldur Sigurdsson, Bruce Houghton, Hazel Rymer, John Stix, Steve McNutt

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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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Editorial Review

From Library Journal
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

From Booklist
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.

Review
"Everything you ever wanted to know about volcanism is contained in this text [...] the authoritative reference on volcanology for years to come."
--CALIFORNIA GEOLOGY, May/June 2000
"This monumental volume, authored by more than 100 leading specialists, dwarfs all previous works . . . the publisher has done a remarkable job."
--CHOICE, June 2000
"This volume is the first sophisticated attempt at a comprehensive reference work about volcanoes and volcanic processes...The articles can be quite technical but not any more than they need to be in giving serios 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...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....this valuable resource is highly recommended for larger public and academic libraries."
--BOOKLIST/April 1, 2000
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--Teresa Berry, University of Tennessee Library, LIBRARY JOURNAL/April 1, 2000
"The comprehensive and up-to-date Encyclopedia of Volcanoes represents good, broad scientific writing. Important topics about volcanoes that are rarely addressed in stuff scientific journals, such as volcanoes in art, literature and film, are to be found here. The book's 83 chapters are written by volcanological scholars and reviewed by their peers. The authors did not 'dumb down' other work, or cut and paste from their scientific journal publications, but instead present difficult science clearly. The problem of jargon, a curse of scientific education, is addressed upfront by a glossary in each chapter. The science presented clearly reveals openings for new investigations.
--William I. Rose, Michigan Technological University, NATURE, March 2000
"The Encyclopedia of Volcanoes is thorough, comprehensive and fully deserving of its title....The articles are scholarly and will be of most interest to the student and scientific researcher...each article has its own glossary that helps make the book more useful to the general reader as well as a list of further readings, some more extensive than others. There are also more than 800 graphs, charts, tables, and illustrations that complement the nearly 1400 pages of text...The Encyclopedia of Volcanoes is unique in its extensive coverage of this fascinating subject. There is a lot of useful scientific information here for the money.
--AGAINST THE GRAIN, February 2000
" The Encyclopedia of Volcanoes covers just about everything one could wish to know about volcanoes and at 1,359 pages of text no other single book can hope to compete with the mass of volcanological information it contains (all 3.5 kg of it). Written by 112 expert authors, the Encyclopedia of Volcanoes will be the reference work for a long time....
Undergraduate geology students, professional volcanologists, planetologists, and historians of science will

find the Encyclopedia has something for them. With so much material on display, the encyclopedia is a browser's delight and members of sub-disciplines will find their interests being pulled towards new undreamt of areas of volcanology as they flick through the pages. It's difficult to stop reading it...All science libraries should have a copy."
--Stephen Blake, Department of Earth Sciences, The Open University, Milton Keynes, IAVCEI News

Users Review

From reader reviews:

Ross Jackson:

Often the book Encyclopedia of Volcanoes will bring you to definitely the new experience of reading a new book. The author style to describe the idea is very unique. If you try to find new book to see, this book very ideal to you. The book Encyclopedia of Volcanoes is much recommended to you to see. You can also get the e-book from your official web site, so you can quickly to read the book.

John Casteel:

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