The Encyclopedia of Volcanoes. Edition No. 2

Description: 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, 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; it provides a comprehensive source of information on the causes of volcanic eruptions and both the destructive and beneficial effects. The early chapters focus on the science of volcanism (melting of source rocks, ascent of magma, eruption processes, extraterrestrial volcanism, etc.). Later chapters discuss human interface with volcanoes, including 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.

- Provides the only comprehensive reference work to cover all aspects of volcanology
- Written by nearly 100 world experts in volcanology
- Explores an integrated transition from the physical process of eruptions through hazards and risk, to the social face of volcanism, with an emphasis on how volcanoes have influenced and shaped society
- Presents hundreds of color photographs, maps, charts and illustrations making this an aesthetically appealing reference
- On-line supplement includes additional multimedia
- Glossary of 3,000 key terms with definitions of all key vocabulary items in the field is included

Contents:

Introduction

The History of Volcanology

Part I. Origin and Transport of Magma

1. Melting the Earth's Upper Mantle
   Timothy L. Grove and Christy B. Till

2. Migration of Melt
   Martha J. Daines and Matej Pec

3. Plate Tectonics and Volcanism
   Peter C. LaFemina

4. The Composition and Origin of Magmas
   Nick Rogers

5. Thermodynamic and Transport Properties of Silicate Melts and Magma
   Charles E. Lesher and Frank J. Spera

6. Chemical Thermodynamics and the Study of Magmas
   Mark S. Ghiorso and Guilherme A.R. Gualda
7. Volatiles in Magmas
Paul J. Wallace, Terry Plank, Marie Edmonds and Erik H. Hauri

8. Magma Chambers
Bruce D. Marsh

9. Rates of Magma Ascent and Storage
Brandon Browne and Lindsay Szramek

10. Magma Transport in Dikes
Helge Gonnermann and Benoit Taisne

11. Magma Ascent and Degassing at Shallow Levels
Alain Burgisser and Wim Degruyter

Part II. Eruptions

12. Earth’s Volcanoes and Their Eruptions: An Overview
Lee Siebert, Elizabeth Cottrell, Edward Venzke and Benjamin Andrews

13. Sizes of Volcanic Eruptions
David M. Pyle

14. Global Rates of Volcanism and Volcanic Episodes
Natalia Irma Deligne and Haraldur Sigurdsson

15. Primary Volcanic Landforms
Shan de Silva and Jan M. Lindsay

16. Calderas
Michael Branney and Valerio Acocella

Part III. Effusive Volcanism

17. Lava Flows and Rheology
Andrew J.L. Harris and Scott K. Rowland

18. Lava Dome Eruptions
Eliza S. Calder, Yan Lavallée, Jackie E. Kendrick and Marc Bernstein

19. Submarine Lavas and Hyaloclastite
James D.L. White, Jocelyn McPhie, and S. Adam Soule

20. Glaciovolcanism
Benjamin R. Edwards, Magnús T. Gudmundsson and James K. Russell

21. Mid-Ocean Ridge Volcanism
Part IV
Explosive Volcanism

25. Magmatic Fragmentation
Katharine V. Cashman and Bettina Scheu

26. Magma-Water Interaction and Phreatomagmatic Fragmentation
Bernd Zimanowski, Ralf Büttner, Pierfrancesco Dellino, James D.L. White and Kenneth H. Wohletz

27. Hawaiian and Strombolian Eruptions
Jacopo Taddeucci, Marie Edmonds, Bruce Houghton, Michael R. James and Sylvie Vergniolle

28. Vulcanian Eruptions
Amanda Bachtell Clarke, Tomaso Esposito Ongaro and Alexander Belousov

29. Plinian and Subplinian Eruptions
Raffaello Cioni, Marco Pistolesi and Mauro Rosi

30. Phreatomagmatic and Related Eruption Styles
Bruce Houghton, James D.L. White and Alexa R. Van Eaton

31. Submarine Explosive Eruptions
James D.L. White, C. Ian Schipper and Kazuhiko Kano

32. Volcanic Plumes
Steven Carey and Marcus Bursik

33. Tephra Dispersal and Sedimentation
Costanza Bonadonna, Antonio Costa, Arnau Folch and Takehiro Koyaguchi

34. Pyroclastic Fall Deposits
Bruce F. Houghton and Rebecca J. Carey

35. Pyroclastic Density Currents: Processes and Models
Josef Dufek, Tomaso Esposito Ongaro and Olivier Roche

36. Deposits of Pyroclastic Density Currents
Richard J. Brown and Graham D.M. Andrews
37. Lahars and Their Deposits
James W. Vallance and Richard M. Iverson
38. Landslides, Debris Avalanches and Volcanic Gravitational Deformation
Benjamin van Wyk de Vries and Tim Davies

Part V
Extraterrestrial Volcanism
39. Volcanism on the Moon
Paul D. Spudis
40. Volcanism on Mercury
James W. Head, III and Lionel Wilson
41. Volcanism on Mars
James R. Zimbelman, William Brent Garry, Jacob Elvin Bleacher and David A. Crown
42. Volcanism on Venus
Mikhail A. Ivanov, Larry S. Crumpler, Jayne C. Aubele and James W. Head, III
43. Volcanism on Io
Rosaly M.C. Lopes and David A. Williams
44. Cryovolcanism in the Outer Solar System
Paul Geissler

Part VI
Volcanic Interactions
45. Volcanic, Magmatic and Hydrothermal Gases
Tobias P. Fischer and Giovanni Chiodini
46. Intrusion-Related Geothermal Systems
James Stimac, Fraser Goff and Cathy J. Goff
47. Seafloor Hydrothermal Venting at Volcanic Arcs and Backarcs
Cornel E.J. de Ronde and Valerie K. Stucker
48. Volcano-Related Lakes
Pierre Delmelle, Richard W. Henley and Alain Bernard
49. Volcanic Successions Associated with Ore Deposits: Facies Characteristics and Ore-Host
Appendix 1: Common Units and Conversion Factors

Appendix 2: Catalog of Earth's Documented Holocene Eruptions

Ordering:

Order Online - [http://www.researchandmarkets.com/reports/3049042/](http://www.researchandmarkets.com/reports/3049042/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: The Encyclopedia of Volcanoes. Edition No. 2
Web Address: http://www.researchandmarkets.com/reports/3049042/
Office Code: SCBR2HYS

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Hard Back)</td>
<td></td>
<td>USD 158 + USD 29 Shipping/Handling</td>
</tr>
<tr>
<td>Hard Copy (Hard Back)</td>
<td></td>
<td>USD 158 + USD 29 Shipping/Handling</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World