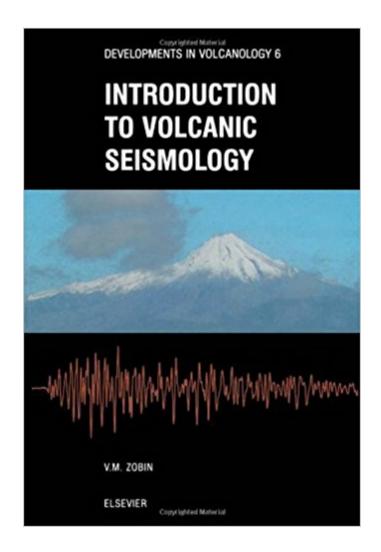


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Introduction To Volcanic Seismology (Developments In Volcanology) (Vol 6)





Synopsis

Volcanic earthquakes represent the main and often the only instrument to forecast volcanic eruptions. This book is the first monograph about seismicity in volcances. It describes the main types of seismic signals in volcances, their nature and spatial and temporal distribution at different stages of eruptive activity. The book begins with an introduction to the history of volcanic seismology, discusses the models developed for the study of the origin of volcanic earthquakes of both a volcano-tectonic and eruption nature. The next three chapters give case histories of seismic activity associated with 34 eruptions in 17 basaltic, andesitic and dacitic volcances throughout the world from 1910 to 1998. Chapters 8 to 10 describe the general regularities of volcano-tectonic earthquakes. The following three chapters are devoted to the description of eruption earthquakes. The following three chapters are devoted to the description of eruption earthquakes: volcanic tremor, seismic noise of pyroclastic flows, and explosion earthquakes, with a special discussion on their relationship to eruptive processes. The final two chapters discuss the mitigation of volcanic hazard, the methodology of seismic monitoring of volcanic activity, and experience with forecasting volcanic eruptions by seismic methods.

Book Information

Series: Developments in Volcanology (Book 6) Hardcover: 302 pages Publisher: Elsevier Science; 1 edition (July 15, 2003) Language: English ISBN-10: 044451340X ISBN-13: 978-0444513403 Product Dimensions: 9.6 x 7.6 x 0.7 inches Shipping Weight: 1.5 pounds Average Customer Review: Be the first to review this item Best Sellers Rank: #2,167,230 in Books (See Top 100 in Books) #104 inà Â Books > Science & Math > Earth Sciences > Geology > Volcanology #324 inà Â Books > Science & Math > Earth Sciences > Seismology #437 inà Â Books > Science & Math > Earth Sciences > Earthquakes & Volcanoes

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