



Introduction to Volcanic Seismology, Third Edition

Vyacheslav M Zobin

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Introduction to Volcanic Seismology, Third Edition covers all aspects of volcano seismology, specifically focusing on recent studies and developments. This new edition expands on the historical aspects, including updated information on how volcanic seismology was handled in the past (instrumentation, processing techniques, number of observatories worldwide) that is compared to present day tactics. Updated case studies can be found throughout the book, providing information from the most studied volcanoes in the world, including those in Iceland.

Additional features include descriptions of analog experiments, seismic networks, both permanent and temporal, and the link between volcanoes, plate tectonics, and mantle plumes. Beginning with an introduction to the history of volcanic seismology, the book then discusses models developed for the study of the origin of volcanic earthquakes of both a volcano-tectonic and eruption nature.

In addition, the book covers a variety of topics from the different aspects of volcano-tectonic activity, the seismic events associated with the surface manifestations of volcanic activity, descriptions of eruption earthquakes, volcanic tremor, seismic noise of pyroclastic flows, explosion earthquakes, and the mitigation of volcanic hazards.

- Presents updated global case studies to provide real-world applications, including studies from Iceland
- Delivers illustrations alongside detailed descriptions of volcanic eruptions
- Includes essential information that students and practitioners need to understand the essential elements of volcanic eruptions
- Updates include information on how volcanic seismology was handled in the past (instrumentation, processing techniques, number of observatories worldwide) that are compared to the tactics of today

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