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Recent Advances in Nuclear Explosion Monitoring

By Andreas Becker

Birkhäuser Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 26x19.3x cm. This item is printed on demand - Print on Demand Neuware - This volume is a follow-up of PAGEOPH Topical Volume 167 (2010) and again reports on the latest advances in science and technology that have been achieved to monitor compliance with the Comprehensive Nuclear-Test-Ban Treaty (CTBT). This progress in the development and testing of new sensor technologies and analysis methodologies in all relevant scientific disciplines improves the detection, location and characterization of CTBT-relevant events. In particular the latter poses a challenge for smaller events, where natural or manmade but CTBT-irrelevant sources can generate false positive events. Being able to effectively identify these events while maintaining a minimum risk of missing a nuclear explosion is the overall challenge. The 29 papers in this volume can be structured into 16 waveform studies, eight contributions in the field of radionuclide monitoring and related atmospheric backtracking and five papers related to on-site inspection or overhead detection of relevant events, with many of these originally presented at a special session on 'Research and Development in Nuclear Explosion Monitoring' at the most recent annual General Assemblies of the European Geosciences Union (EGU). The volume addresses...



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