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Application of Acoustic Emission (AE) on Rock Samples II

Guest Editor:

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Message from the Guest Editor

The application of the acoustic emission technique during laboratory testing on rock samples is used to better understand the failure process of rock. The nature of tectonic earthquakes from observations of microscale fracture phenomena is a popular topic. Many researchers have discussed the process of foreshocks, main shocks, and aftershocks from AE activity monitored through failure of rock specimens. Others have studied the fracturing process of rock and discussed the relation between microcracking and inelastic deformation. Very common is the examination of focal mechanisms of AE activity during laboratory tests on rock samples, and many researchers have used AE in novel ways. In this Special Issue, we seek contributions on recent studies in this field. We also seek contributions describing case histories of AE applications to rock specimens that have achieved the goals of AE measurements and do so by giving adequate technical information supporting the success stories.

- Rock samples
- Acoustic emission
- Microcracking
- Event counting
- Source location
- Energy release
- Gutenberg-Richter relation
- Source mechanism











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Message from the Editor-in-Chief

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