

Special Issue

Application of Acoustic Emission (AE) on Rock Samples II

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

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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