



Synchronization and Triggering: from Fracture to Earthquake Processes: Laboratory, Field Analysis and Theories (GeoPlanet: Earth and Planetary Sciences)

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Processes of synchronization and interaction play a very special role in different physical problems concerning the dynamics of the Earth's interior; they are of particular importance in the study of seismic phenomena, and their complexity is strongly affected by the variety of geological structures and inhomogeneities of the medium that hamper the course of these processes and their intensity. The attempt to tackle these problems is a great challenge from experimental, observational and theoretical point of view. We present in this Monograph the theoretical and experimental results achieved in the frame of the European Project "Triggering and synchronization of seismic/ acoustic events by weak external forcing as a sign of approaching the critical point" (INTAS Ref. Nr 05-1000008-7889); in this Project, which was inspired by Professor Tamaz Chelidze, our aim was to give grounds for better understanding and interpretation of dynamical interactive processes of physical fields, both found in the laboratory experiments as well as in field observations. One of the leading problems – related to synchronization and interaction of different physical fields in fracture processes concerns triggering and initiation of rupture and displacements within the Earth interior. From this point of view, the results from laboratory studies on synchronization and interaction and those found and involved in field observations, helped to improve the theoretical background. Reversely, some of the presented new theoretical approaches have served to stimulate laboratory and field studies.

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