

Special Issue

Structural Health Monitoring Based on Piezoelectric Transducers

Message from the Guest Editor

"Structural Health Monitoring, SHM" works are very multidisciplinary and aim, generally, to develop SMART materials and structures that directly convey information on their health state. The piezoelectric transducers, working in passive mode (acoustic emission sensors, capacitive measurement and charge measurements, ...) and active one (generators of ultrasonic waves and vibrations, acousto-ultrasonic and vibroacoustic testing,...), can be integrated into the core of material/structure or implanted on its surface in order to detect and monitor in real-time its damage mechanisms following thermal and/or mechanical stresses. In this context, this Special Issue entitled "Structural Health Monitoring Based on Piezoelectric Transducers" aims to make a point about the recent advances in the use of piezoelectric transducers and its copolymers (e.g., P(VDF/TrFE)); SMART layers; PFCs (piezoelectric fiber composites: AFCs/MFCs (active/macro fiber composites); PZT layers; Piezocomposite films; ASF (active structural fiber); SAW (surface acoustic wave);...) for the health state monitoring of polymer, composite, metallic, hybrid or property gradient materials and structures.

Guest Editor

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