Special Issue

Energy Dissipation and Vibration Control: Modeling, Algorithm and Devices

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Message from the Guest Editors

Dear Colleagues,

The study of vibrations and the control of vibrations has been a fundamental cornerstone of engineering. Problems related to vibrations are ubiquitous, from the study of fatigue of airplane wings in turbulent flow to the suppression of vibrations in subsea structures. The breadth of vibration engineering is matched by the depth of field. Numerous methods have been used to understand vibrations, and a wide range of devices have been developed to control vibrations. Many vibration control problems can be considered as a problem of energy dissipation and vibration damping. The problem encompasses multiple interdependent aspects of research and engineering. Thus, the scope and aims of this Special Issue are to receive and accumulate new knowledge about vibration control, especially for topics related to energy dissipation methods for vibration damping. Desired topics include but are not limited to vibration modeling, algorithms for active vibration control, passive damping methods, vibration damping devices, new materials for energy dissipation, etc.

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