

1. Vibration Control and Utilization

Introduction: Mechanical vibration is ubiquitous in the environment, and most vibrations are harmful, causing failure and damage to equipment. Vibration energy harvesting can capture and convert vibration energy into electrical energy to power small devices for reasonable utilization. Moreover, vibration control reduces harmful vibrations in the system and protects the devices for normal operation. Therefore, the investigations of materials, dynamic theories, designs, experiments, and applications of vibration control and energy harvesting have developed significantly in the last decade. This Special Session aims to focus on advances in the field of vibration control and utilization.

Topics:

- Nonlinear vibration analysis in vibration control and energy harvesting
- Quasi zero stiffness vibration control and energy harvesting
- Multistable/bistable vibration control and energy harvesting
- Design and experiments of self-powered systems
- Vibration Energy Harvesting and Applications

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