

Special Issue

The Study of Low Frequency Vibration and Noise Reduction

Message from the Guest Editor

Vibration and noise control is a very practical research field for a long time. In the past decade, many control methods and new materials and structures have emerged to solve the problem of low-frequency vibration and noise. For example, acoustic black holes are used to control bending waves in thin plates, acoustic metamaterials are used to achieve low-frequency broadband sound absorption and low-frequency high sound insulation, and elastic metasurfaces are used to control elastic wave transmission. The continuous exploration in this field not only enriches the basic theory of vibration and noise but also plays a huge application potential in related products in industry. This Special Issue welcomes researchers to contribute to the field of vibration and noise control, including control methods, structures, materials, and the discovery of new physical mechanisms. Vibration and noise control is a very practical research field. Because the length of low-frequency acoustic wave and elastic wave are too large for the structure size, the control of low-frequency internal vibration and noise has been a very challenging and hot research topic...

Guest Editor

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Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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