



State-of-the-Art on Vibroacoustics and Sound Radiation Control of Structures

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Message from the Guest Editor

Dear Colleagues,

Structures, when subjected to time-varying loads, will vibrate and radiate sounds. The characteristics of the sounds radiated from the structure may depend on the vibration behavior of the structure, which in term depends on different factors, such as the properties of the structural materials, the types of loads, the location of the load application, the structural configuration, the boundary conditions, etc. It is important to have accurate theoretical methods to predict the actual vibroacoustic behavior of the structure, so that the techniques for controlling the vibration and sound radiation of the structure can be properly implemented.

Keywords:

- Structural vibration
- Vibroacoustics
- Passive control of sound and vibration
- Active control of sound and vibration
- Mechanical engineering sources of noise and vibration

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Guest Editor





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