



Vibration Control for Space Application

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Message from the Guest Editor

“New Space” paradigm covers the mass production of small satellites for reaching orbit at low cost constellation mission. Vibration control strategy would be attractive to achieve a goal of “New Space” paradigm such as better, faster, cheaper and lighter satellite.

This special issue encompasses all aspects of vibration phenomena for on-orbit and launch vibration environments and their control methodologies based on passive, active and semi-active approaches for space applications. The scope covers technical topics such as: on-orbit vibration and control for large flexible structure and disturbance sources with mechanical moving parts; launch vibration and control for whole spacecrafts, payloads and launch vehicles; low shock holding and release mechanism and applications of using smart materials for vibration control of space structures. The special issue also includes dynamic behavior of deployment mechanism, structural design and vibration test of a novel small satellite system including CubeSat.





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