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Advanced Vibro-Acoustic Technology

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Vibration and acoustics are pervasive in both natural and industrial environments, ranging from ocean waves and flutter to pipeline vibration, wind-induced vibration, jet noise, and underwater noise. The control and utilization of vibro-acoustics have emerged as a promising field in modern industry, providing critical support for self-powered sensors in the Environmental Internet of Things (EIOT), the abatement of unnecessary vibration and noise, and acoustic target tracking. Recent advances in cutting-edge technologies, such as intelligent algorithms, smart materials, and advanced analysis methods, have accelerated progress in the control and utilization of vibro-acoustics, enabling new research directions and expanding practical application opportunities.

This Reprint compiles the latest research advances in the control and utilization of vibro-acoustics, focusing on the innovative application of intelligent algorithms, smart materials, and advanced analysis methods.

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