

Random Vibration Mechanical Structural And Earthquake Engineering Applications Advances In Earthquake Engineering

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The topic of Random Vibrations is the behavior of structural and mechanical systems when they are subjected to unpredictable, or random, vibrations. These vibrations may arise from natural phenomena such as earthquakes or wind, or from human-controlled causes such as the stresses placed on aircraft at takeoff and landing.

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Random Vibrations | ScienceDirect

Structural response to random vibration is usually treated using statistical or probabilistic approaches. Mathematically, random vibration is characterized as an ergodic and stationary process . A measurement of the acceleration spectral density (ASD) is the usual way to specify random vibration.

Random vibration - Wikipedia

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