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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.

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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Random Vibrations: Analysis of Structural and Mechanical ...

A random vibration test is one comprised of vibration energy at all frequencies over a specified range. The vibration frequency components that make up the input signal for a random test combine in amplitude and phase to create a time waveform which appears on an oscilloscope as random noise.

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fatigue, caused by forced vibration of random nature. An excited structure responds according to its natural-dynamics modes, which results in a dynamic stress load in the material points.

Vibration fatigue - Wikipedia

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