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To perform random testing, a random test spectrumneeds to be defined. Real-time data acquisition utilizes spectrum-averaging to create a statistical approximation of the vibration spectrum. Generally, the random vibration spectrum profile is defined as a power spectral density (PSD) plot.

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is the central result of the random vibration theory and its simplicity justifies our faith in the Fourier transform and frequency response approach. In the case of response to a single input, the above equation becomes: Or, since the product of a complex number and its complex conjugate is

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Július Sólnes is the author of Stochastic Processes and Random Vibrations: Theory and Practice, published by Wiley.

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Random Vibrations: Theory and Practice

Description Covers the theory and analysis of vibrating systems and structures undergoing irregular random oscillations, the manner under which vibration excitation begins and methods to evaluate and control the disturbances. Features an assessment of nonlinear systems experiencing loading, fatigue and fracture brought on by vibration.

Random vibration - Wikipedia

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