



# **Mechanical Vibration and Shock Analysis, Random Vibration (Iste) (Volume 3)**

*Christian Lalanne*

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**Mechanical Vibration and Shock Analysis, Second Edition**

## **Volume 3: Random Vibration**

The vast majority of vibrations encountered in a real-world environment are random in nature. Such vibrations are intrinsically complicated, but this volume describes a process enabling the simplification of the analysis required, and the analysis of the signal in the frequency domain. Power spectrum density is also defined, with the requisite precautions to be taken in its calculation described together with the processes (windowing, overlapping) necessary for improved results. A further complementary method, the analysis of statistical properties of the time signal, is described. This enables the distribution law of the maxima of a random Gaussian signal to be determined and simplifies calculation of fatigue damage to be made by the avoidance of the direct counting of peaks.

The **Mechanical Vibration and Shock Analysis** five-volume series has been written with both the professional engineer and the academic in mind. Christian Lalanne explores every aspect of vibration and shock, two fundamental and extremely significant areas of mechanical engineering, from both a theoretical and practical point of view. The five volumes cover all the necessary issues in this area of mechanical engineering. The theoretical analyses are placed in the context of both the real world and the laboratory, which is essential for the development of specifications.

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