



Random Vibrations: Analysis of Structural and Mechanical Systems

Loren D. Lutes, Shahram Sarkani

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The topic of Introduction to 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. Study and mastery of this topic enables engineers to design and maintain structures capable of withstanding random vibrations, thereby protecting human life.

Introduction to Random Vibrations will lead readers in a user-friendly fashion to a thorough understanding of vibrations of linear and nonlinear systems that undergo stochastic-random-excitation.

- Provides over 150 worked out example problems and, along with over 225 exercises, illustrates concepts with true-to-life engineering design problems
- Offers intuitive explanations of concepts within a context of mathematical rigor and relatively advanced analysis techniques.
- Essential for self-study by practicing engineers, and for instruction in the classroom.

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