



Mechanical Vibration: Analysis, Uncertainties, and Control, Third Edition (Mechanical Engineering)

Haym Benaroya, Mark L. Nagurka

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Mechanical Vibration: Analysis, Uncertainties, and Control simply and comprehensively addresses the fundamental principles of vibration theory, emphasizing its application in solving practical engineering problems. The authors focus on strengthening engineers' command of mathematics as a cornerstone for understanding vibration, control, and the ways in which uncertainties affect analysis. It provides a detailed exploration and explanation of the essential equations involved in modeling vibrating systems and shows readers how to employ MATLAB® as an advanced tool for analyzing specific problems.

Forgoing the extensive and in-depth analysis of randomness and control found in more specialized texts, this straightforward, easy-to-follow volume presents the format, content, and depth of description that the authors themselves would have found useful when they first learned the subject. The authors assume that the readers have a basic knowledge of dynamics, mechanics of materials, differential equations, and some knowledge of matrix algebra. Clarifying necessary mathematics, they present formulations and explanations to convey significant details.

The material is organized to afford great flexibility regarding course level, content, and usefulness in self-study for practicing engineers or as a text for graduate engineering students. This work includes example problems and explanatory figures, biographies of renowned contributors, and access to a website providing supplementary resources. These include an online MATLAB primer featuring original programs that can be used to solve complex problems and test solutions.

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