



Vibrations

Balakumar Balachandran, Edward B. Magrab

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Featuring outstanding coverage of linear and non-linear single degree-of-freedom and multi-degree-of-freedom systems, this book teaches the use of vibration principles in a broad spectrum of applications. In this introduction for undergraduate students, authors Balakumar Balachandran and Edward B. Magrab present vibration principles in a general context and illustrate the use of these principles through carefully chosen examples from different disciplines. Their balanced approach integrates principles of linear and nonlinear vibrations with modeling, analysis, prediction, and measurement so that physical understanding of the vibratory phenomena and their relevance for engineering design can be emphasized. The authors also provide design guidelines that are applicable to a wide range of vibratory systems. MATLAB is thoroughly integrated throughout the text.

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