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Mechanical Vibrations: Theory and Application to Structural Dynamics

Michel Geradin, Daniel J. Rixen

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Mechanical Vibrations: Theory and Application to Structural Dynamics, Third Edition is a comprehensively updated new edition of the popular textbook. It presents the theory of vibrations in the context of structural analysis and covers applications in mechanical and aerospace engineering.

Key features include:

- A systematic approach to dynamic reduction and substructuring, based on duality between mechanical and admittance concepts
- An introduction to experimental modal analysis and identification methods
- An improved, more physical presentation of wave propagation phenomena
- A comprehensive presentation of current practice for solving large eigenproblems, focusing on the efficient linear solution of large, sparse and possibly singular systems
- A deeply revised description of time integration schemes, providing framework for the rigorous accuracy/stability analysis of now widely used algorithms such as HHT and Generalized-α
- Solved exercises and end of chapter homework problems
- A companion website hosting supplementary material

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