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#### Review

"This book provides an accessible, modern approach to vibrations" (La Doc STI, May 2001)

"innovative, well-written and well-produced" (The Aeronautical Journal, November 2001)

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Mechanical and Structural Vibrations provides an accessible, nodern approach to vibrations that will enable students to understand and analyze sophisticated, real-world mechanical and structural systems. The text presents theory, methods, and mathematical software in one rightly integrated framework, with equal emphasis on analytical derivations, computational procedures, problem solving, and physical interpretation.

#### FEATURES

- New formulation based on the principle of power balance for deriving equations of motion provides the versatility of Lagrange's equations in a readily accessible manner.
- Particulat attention is given to the implementation of computer algorithms.
- Equal emphasis on Matlab anf Mathcad, including identification of errors commonly made by stufents when each program is used for vibration analysis.
- Numerous solved examples woth extensive discussions of the physical significance of results. Several exaples are drawn from research papers.
- Thorough treatment of FFT, and its application to vibrations.
- Analysis of transient response using frequency domain convolution, including avoidance of aliasing, wraparound, and leakage errors.
- Extensive development of procedutes for experimental identification of system parameters, including experimental modal analysis for multi-degree-of-freedom systems.
- Innovative use of the Ritz series approach to analyze vibration of beams. The application of partial

differential equations to study the vibration of continuous systems is optional!

- New formulation of modal analysis for arbitrarily damped, but non-gyroscopic, systems leads to a symmetric state-space eigenvalue problem that is easily implemented.
- Complete development of modal analysis for systems featuring gyroscopic effects, follower forces, and feedback.
- Thorough introduction to transient and steady-state analysis of rotordynamic systems, including identification of instabilities and critical rotation rates.

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This book provides a new viewpoint for the study of vibrations exhibited by mechanical and structural systems. Tight integration of mathematical software makes it possible to address real world complexity in a manner that is readily accessible to the reader. It offers new approaches for discrete system modeling and for analysis of continuous systems. Substantial attention is given to several topics of practical importance, including FFT's experimental modal analysis, substructuring concepts, and response of heavily damped and gyroscopic systems.

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