



Engineering Vibration (3rd Edition)

Daniel J. Inman

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Serving as both text and reference manual, this text connects traditional design-oriented topics, the introduction of modal analysis, and the use of MATLAB. The author provides an unequalled combination of the study of conventional vibration with the use of vibration design, analysis and testing in various engineering applications. Special-interest windows utilized throughout the text placed at points where prior or background information summaries are required. Remind readers of essential information pertinent to the text material, preventing them from flipping to previous chapters or reference texts for formulas or other information. Examines topics that reflect some of the recent advances in vibration technology, changes in ABET criteria and the increased importance of both engineering design and modal analysis. Incorporates MATLAB Vibration Toolbox throughout allowing readers to conduct and explore vibration analysis. Toolbox offers professional quality computer analyses including basics, introduction to model analysis with actual experimental data files and finite elements. Readers are challenged with over 65 computer problems (645 problems in all) including use of manufacture's design charts, measurement analysis, and matrix eigenvalue computing for frequencies and modes. Ideal for readers with an interest in Mechanical Engineering, Civil Engineering, Aerospace Engineering and Mechanics.

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