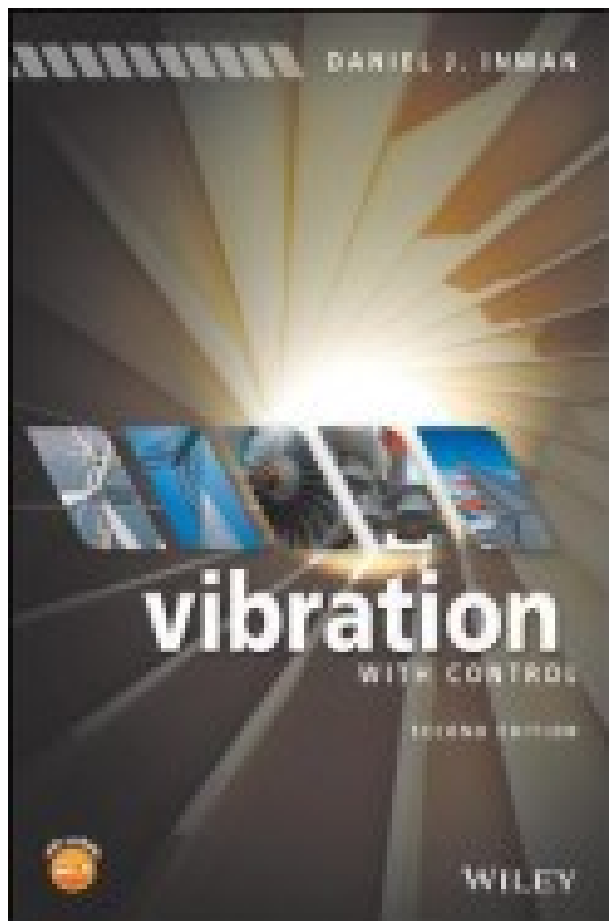


# Vibration with Control



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An advanced look at vibration analysis with a focus on active vibration suppression. As modern devices, from cell phones to airplanes, become lighter and more flexible, vibration suppression and analysis becomes more critical. *Vibration with Control*, 2nd Edition includes modelling, analysis and testing methods.

New topics include metastructures and the use of piezoelectric materials, and numerical methods are also discussed. All material is placed on a firm mathematical footing by introducing concepts from linear algebra (matrix theory) and applied functional analysis when required. Key features: \* Combines vibration modelling and analysis with active control to provide concepts for effective vibration suppression. \* Introduces the use of piezoelectric materials for vibration sensing and suppression. \* Provides a unique blend of practical and theoretical developments. \* Examines nonlinear as well as linear vibration analysis.

\* Provides Matlab instructions for solving problems. \* Contains examples and problems. \* PowerPoint Presentation materials and digital solutions manual available for instructors.

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