

Vibration Theory and Applications with Finite Elements and Active Vibration Control

By Alan Palazzolo

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Based on many years of research and teaching, this book brings together all the important topics in linear vibration theory, including failure models, kinematics and modeling, unstable vibrating systems, rotordynamics, model reduction methods, and finite element methods utilizing truss, beam, membrane and solid elements. It also explores in detail active vibration control, instability and modal analysis. The book provides the modeling skills and knowledge required for modern engineering practice, plus the tools needed to identify, formulate and solve engineering problems effectively.

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Review
"The material of this book is drawn from the 35 years of teaching, research, and industrial experiences of author in the areas of vibrations, finite elements and active vibration control. The book provides extensive coverage of vibration-related topics, with particular emphasis on the basic areas of modeling, analysis and applications." (Zentralblatt MATH 2016)

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