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# Vibration Theory and Applications with Finite Elements and Active Vibration Control

By Alan Palazzolo

John Wiley & Sons Inc. Hardback. Book Condition: new. BRAND NEW, Vibration Theory and Applications with Finite Elements and Active Vibration Control, Alan Palazzolo, A comprehensive and practical guide to vibration theory with particular emphasis on finite element modeling using real world engineering scenarios Vibration Theory and Applications with Finite Element Analysis provides extensive coverage of vibration-related topics, with particular emphasis on the three basic areas of modeling, analysis and applications. The author recognizes that a thorough understanding of mathematical and modeling techniques is essential before progressing to methods of analysis and there is a complete section covering the relevant math and programming techniques in MATLAB and MAPLE. By using a wide range of practical examples and exercises, the author demonstrates how the math relates to engineering and its applications, connecting theory to engineering practice and problem solving. Based on many years of research and teaching, this book brings together all the important topics in vibration theory, including failure models, kinematics and modeling, unstable vibrating systems, rotor dynamics and finite element methods utilizing truss, beam, plate and solid elements. It also explores in detail active vibration control, instability, bifurcation theory and paths to chaos. The book provides the modeling skills...



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