Harris' Shock and Vibration Handbook

By Piersol, Allan G. / Paez, Thomas L.

Book Condition: New. Publisher/Verlag: McGraw-Hill Professional | The classic reference on shock and vibration, fully updated to incorporate the latest advances in the field. Written by a team of internationally recognized experts, this practical and comprehensive handbook provides all the information needed to design, analyze, install, and maintain systems subject to mechanical shock and vibrations. The book covers theory, measurement, testing, design, and control methodologies, and practical applications. The Sixth Edition of Harris' Shock and Vibration Handbook has been extensively revised with 10 chapters replaced with new material. Coverage of waveform replication and wavelets in shock and vibration testing, and the use of temporal moments to describe an effective duration for shock data is now included. | Chapter 1: Introduction to the Handbook Chapter 2: Basic Vibration Theory Chapter 3: Vibration of a Resiliently Supported Rigid Body Chapter 4: Nonlinear Vibration Chapter 5: Self-Excited Vibration Chapter 6: Dynamic Vibration Absorbers and Auxiliary Mass Dampers Chapter 7: Vibration of Systems Having Distributed Mass and Elasticity Chapter 8: Transient Response to Step and Pulse Functions Chapter 9: Effect of Impact on Structures Chapter 10: Mechanical Impedance Chapter 11: Statistical Methods for Analyzing Vibrating Systems Chapter 12: Vibration Transducers Chapter 13: Vibration Measurement...

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