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Disciplina	624.1762
Soggetti	Mechanics Mechanics, Applied Vibration Dynamical systems Dynamics Physical measurements Measurement Solid Mechanics Vibration, Dynamical Systems, Control Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1 Phase Control of RF Cavities -- 2 Smart Setup and Accelerometer Mounting Check for Vibration Measurements -- 3 NVH Development at Achates Power -- 4 35 Years with Structural Measurements at Bruel & Kjaer -- 5 Measuring Violin Bow Force During Performance -- 6 Synthesizing Uncorrelated Drive Files for MIMO Transmissibility Measurements on Road Simulators -- 7 Calibration Techniques for Non-Contacting Force Excitation Part 1. Frequency Domain Methods -- 8 Calibration Techniques for Non-Contacting Force Excitation Part 2. Time Domain Methods -- 9 Responses of Structures to SDoF vs MDoF Vibration Testing -- 10 High Gap Maglev Model and Experimental Validation -- 11 Blind identification of Operational Deflection Shapes

from Continuous Scanning Laser Doppler Vibrometry -- 12 Digital Image Correlation for Timing Belts Dynamic Characterization: Potentials and Critical Aspects -- 13 Stiffness Characterization of an Inflated Airbag Based Three Axis Motion Platform -- 14 Experimental Evaluation of the Force Transmissibility of Phononic-Inspired Vibration Isolators -- 15 Vibro-Impact NES: A Correlation Between Experimental Investigation and Analytical Description -- 16 Fixed-Base Modal Testing Using the NASA GRC Mechanical Vibration Facility -- 17 Observer-based Distributed Controllers Design for A Cantilever Beam -- 18 Experimental Characterization of a Tuned Vibration Absorber.

Sommario/riassunto

Sensors and Instrumentation, Volume 5. Proceedings of the 34th IMAC, A Conference and Exposition on Dynamics of Multiphysical Systems: From Active Materials to Vibroacoustics, 2016, the fifth volume of ten from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: • Experimental Techniques • Smart Sensing • Rotational Effects • Dynamic Calibration • Systems & Sensing Technologies • Modal Transducers • Novel Excitation Methods.
