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Disciplina	620 620.1 629.1
Soggetti	Multibody systems Vibration Mechanics, Applied Aerospace engineering Astronautics Solids Multibody Systems and Mechanical Vibrations Aerospace Technology and Astronautics Solid Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. A Computational Model to Investigate the Influence of Spacing Errors on Spur Gear Pair Dynamics -- 2. Drill Vibration Suppression through Phase-Locked Loop Control -- 3. Towards the Selection of Balancing Planes to Attain Low Vibrations in Flexible Rotor Motor Systems -- 4. Experimental Acoustic Modal Analysis of an Automotive Cabin -- 5. Uncorrelated Noise Sources Separation Using Inverse Beamforming -- 6. ACTIVE NOISE CONTROL EXPERIMENT MINIMISING RADIATION OF

ACTIVE ENERGY -- 7. Active Control of Transformer Noise by MIMO Algorithm -- 8. Numerical Prediction Tools for Low-frequency Sound Insulation in Lightweight Buildings -- 9. Reduction of Radiating Sound from CFRP Laminated Plates with Orthotropy -- 10. Rotating disc model for complex eigenvalue analysis of brake squeal -- 11. Validation of closed-loop coupling disc brake model for squeal analysis -- 12. Estimation of Torsional Compliance from Free-Free FRF Measurements: eRCF Theory -- 13. An Estimation of Torsional Compliance (Stiffness) from Free-Free FRF Measurements: eRCF Application -- 14. Estimation of Bending Compliance (Stiffness) from Free-Free FRF Measurements: eBCF Theory -- 15. In-Situ Experimental Modal Analysis of a Direct-Drive Wind Turbine Generator -- 16. Effect of Radial Confinement on Wave Propagation and Vibrational Response in Bars -- 17. Component Qualification Using 3D Laser Vibrometry and Transmissibility Models -- 18. Exploiting Continuous Scanning Laser Doppler Vibrometry and Wavelet Processing for Damage Detection -- 19. Use of 3D Scanning Laser Vibrometer for Full Field Strain Measurements -- 20. Inline measurements of rail bending and torsion through a portable device -- 21. Forty Years of Use and Abuse of Impact Testing: A Practical Guide to Making Good FRF Measurements -- 22. Detection of Coupling Misalignment by Extended Orbits -- 23. Linear and Nonlinear Response of a Rectangular Plate Measured with Continuous-Scan Laser Doppler Vibrometry and 3D-Digital Image Correlation -- 24. VibrationEvent Localization in an Instrumented Building -- 25. Loading Effect on Induction Motor Eccentricity Diagnostics Using Vibration and Motor Current.

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#### Sommario/riassunto

Experimental Techniques, Rotating Machinery & Acoustics, Volume 8: Proceedings of the 33rd IMAC, A Conference and Exposition on Structural Dynamics, 2015, the eighth 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 Processing Modal Data Rotating Machinery Acoustics Adaptive Structures Biodynamics Damping.

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