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	Soggetti	Statics Buildings - Design and construction Dynamics Nonlinear theories Multibody systems Vibration Mechanics, Applied Experimental design Mechanical Statics and Structures

Building Construction and Design  
Applied Dynamical Systems  
Multibody Systems and Mechanical Vibrations  
Engineering Mechanics  
Design of Experiments

Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Multi-Cellular Damping for Composite Material Applications -- Chapter 2. Novel Data Acquisition Utilising a Flask Python Digital Twin Operational Platform -- Chapter 3. Model Validation for Combined Inertial Acceleration and Vibration Environments -- Chapter 4. Modal Testing with Piezoelectric Stack Actuators -- Chapter 5. Generative Adversarial Networks for Labelled Vibration Data Generation -- Chapter 6. Validation of an Impulse Response Filter for Impact Force Reconstruction on a Hammer Drill -- Chapter 7. Determination of Nonlinear Joint Forces and Nonlinear Identification of Jointed Connections Using FRFs -- Chapter 8. Investigation of Using Log-Spectrum Averaging (Cepstral Averaging) for Blind Reconstruction of an Unknown Impact Input Force -- Chapter 9. The Application of a Force Identification Method Based on Particle Swarm Optimization to Compression Steel Bars -- Chapter 10. Degree of Freedom Selection Approaches for MIMO Vibration Test Design -- Chapter 11. Vibration Mitigation of Bladed Structures using Piezoelectric Digital Vibration Absorbers -- Chapter 12. An Open-source Automatic Modal Hammer Suitable for Studying Nonlinear Dynamical Systems -- Chapter 13. Crack Diagnostics and Prognostics in Miter Gates Based on a Local-Global Model and Image Observations -- Chapter 14. A Hierarchical Filtering Approach for Online Damage Detection using Parametric Reduced-order Models -- Chapter 15. A Tutorial on An Open-Source Python Package for Frequency Based Substructuring and Transfer Path Analysis -- Chapter 16. Miniature Underwater Robot – An Experimental Case Study -- Chapter 17. Benefits of Using a Portable Coordinate Measurement Machine to Measure a Modal Test Geometry.
Sommario/riassunto	Special Topics in Structural Dynamics & Experimental Techniques, Volume 5: Proceedings of the 40th MAC, A Conference and Exposition on Structural Dynamics, 2022, the fifth volume of nine 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: Analytical Methods Emerging Technologies for Structural Dynamics Engineering Extremes Experimental Techniques Finite Element Techniques.