1.	Record Nr.	UNINA9910299818103321
	Titolo	Topics in Modal Analysis, Volume 10 : Proceedings of the 33rd IMAC, A Conference and Exposition on Structural Dynamics, 2015 / / edited by Michael Mains
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-15251-3
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (259 p.)
	Collana	Conference Proceedings of the Society for Experimental Mechanics Series, , 2191-5644
	Disciplina	620 620.1 629.1
	Soggetti	Vibration Dynamical systems Dynamics Aerospace engineering Astronautics Mechanics Mechanics, Applied Vibration, Dynamical Systems, Control 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 contenuto	1. An Efficient Treatment of Parameter Identification in the Context of Multibody System Dynamics Using the Adjoint Method -- 2. Calibration and Validation of a Car Subframe Finite Element Model Using Frequency Responses -- 3. Subspace identification of a 5 MW reference wind turbine -- 4. Dynamic Analysis of Complex Mechanical Structures using a Combination of Numerical and Experimental Techniques -- 5. Predicting Approximate Governing Formula from Experimental Observations -- 6. EXPERIMENTAL CHARACTERIZATIONAND SIMULATION OF VIBRATION ENVIRONMENTAL TEST -- 7. System

Identification of an MDOF Experimental Structure with a View Towards Validation and Verification -- 8. Some Non-Conventional Boundary Conditions (From Marshmallows to Plungers – Who Would have Guessed) -- 9. Robustness of Disc Brake Systems regarding Squeal -- 10. Measurement of Vibration Resulting From Non-contact Ultrasound Radiation Force -- 11. The use of Fiber Bragg Grating sensors for strain modal analysis -- 12. Using Mode Shapes for Real Time ODS Animation -- 13. Removing Unwanted Noise from Operational Modal Analysis Data -- 14. Adaptive-like Vibration Control in a Three-Story Building-like Structure with a PZT Stack Actuator -- 15. A Fast Maximum Likelihood-Based Estimation of a Modal Model -- 16. An Improved Implementation of the Orthogonal Polynomial Modal Parameter Estimation Algorithm Using the Orthogonal Complement -- 17. An Orthogonal View of the Polyreference Least-Squares Complex Frequency Modal Parameter Estimation Algorithm -- 18. Operational Modal Parameter Estimation from Short-Time Data Series -- 19. Order Based Modal Analysis vs. standard techniques to extract modal parameters of operational wind turbine gearboxes -- 20. Modal Identification Results of Quasi-statically Tested RC Frames at Different Damage Levels -- 21. An Innovative Tool for Simulation and Control of a Flying-Cutting Machine -- 22. Modal Analysis and Testing of Honeycomb Sandwich Composites -- 23. Towards an Automatic Modal Parameter Estimation Framework: Mode Clustering.

Sommario/riassunto	Topics in Modal Analysis, Volume 10. Proceedings of the 33rd IMAC, A Conference and Exposition on Balancing Simulation and Testing, 2015, the tenth 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 Modal Analysis, including papers on: Experimental Techniques Processing Modal Data Rotating Machinery.