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Nota di contenuto	Chap 1. Modeling an Electrodynamic Shaker using Experimental Substructuring -- Chap 2. Predicting Assembly Effective Mass from two Component Effective Mass Models -- Chap 3. A Comparison of Craig-Bampton Approaches for Systems with Arbitrary Viscous Damping in Dynamic Substructuring -- Chap 4. Experimental Verification of a Recently Developed FRF Decoupling Method for Nonlinear Systems -- Chap 5. Automated Correction of Sensor Orientation in Experimental Dynamic Substructuring -- Chap 6. Real-Time Hybrid Substructuring

Shake Table Test of a Seismically Excited Base Isolated Building -- Chap 7. A Comparison of two Reduction Techniques for Forced Response of Shrouded Blades with Contact Interfaces -- Chap 8. Experimental-Analytical Substructuring of a Complicated Jointed Structure using Nonlinear Modal Models -- Chap 9. Dynamic Substructuring with a Sliding Contact Interface -- Chap 10. Introducing SEMM: A Novel Method for Hybrid Modelling -- Chap 11. Transmission Simulator Mass Loading Effects in Experimental Substructuring-A Study of the Ampair 600 Benchmark System -- Chap 12. Modeling Transverse Vibration in Spider Webs using Frequency-based Dynamic Substructuring -- Chap 13. Recent Advances to Estimation of Fixed-Interface Modal Models using Dynamic Substructuring -- Chap 14. On the Problem of Describing the Coupling Interface between Sub-structures: An Experimental Test for 'Completeness' -- Chap 15. Coupling Acoustic-Structure Systems Using Dynamic Substructuring -- Chap 16. Dynamic Substructuring Applied to the Decoupling of Acoustic-structure Systems -- Chap 17. Interface Reduction in Component Mode Synthesis of Bladed Disks by Orthogonal-polynomial Series -- Chap 18. Frequency Based Substructuring with the Virtual Point Transformation, Flexible Interface Modes and a Transmission Simulator. .

Sommario/riassunto

Dynamics of Coupled Structures, Volume 4: Proceedings of the 36th IMAC, A Conference and Exposition on Structural Dynamics, 2018, the fourth 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 the Dynamics of Coupled Structures, including papers on: Experimental Nonlinear Dynamics Joints, Friction & Damping Nonlinear Substructuring Transfer Path Analysis and Source Characterization Analytical Substructuring & Numerical Reduction Techniques Real Time Substructuring Assembling & Decoupling Substructures & Boundary Conditions.