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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter1: Using Laser Vibrometry for Precise FRF Measurements in Experimental Substructuring -- Chapter2 A Priori Interface Reduction for Substructuring of Multistage Bladed Disks -- Chapter3: Using Hybrid Modal Substructuring with a Complex Transmission Simulator to Model an Electrodynamic Shaker -- Chapter4: Hybrid Substructure Assembly Techniques for Efficient and Robust Optimization of Additional Structures in Late Phase NVH Design: A Comparison -- Chapter5: Workpiece Coupling in Machine Tools using Experimental-analytical Dynamic Substructuring -- Chapter6: Mechanical Characterization and Numerical Modeling of High Density Polyethylene

Pipes -- Chapter7: Study on Dynamic Stiffness Characteristic of Primary Suspension for High-speed EMU -- Chapter8: Test-based Modeling, Source Characterization and Dynamic Substructuring of a Modular Industrial Demonstrator -- Chapter9: Development of a low Cost Automatic Modal Hammer for Applications in Substructuring -- Chapter10: Using SEMM to Identify the Joint Dynamics in Multiple Degrees of Freedom Without Measuring Interfaces -- Chapter11: Overview of Free Interface Substructuring Approaches for Systems with Arbitrary Viscous Damping in Dynamic Substructuring -- Chapter12: Joint Parameter Identification for Airplane Piping Systems and its Optimisation -- Chapter13: Vehicle Driveline Benchmarking to Support Predictive CAE Modeling Development -- Chapter14: A Proposal of Dynamic Behaviour Design Based on Mode Shape Tracing: Numerical Application to a Motorbike Frame -- Chapter15: Rapid Seismic Risk Assessment of Structures with Gaussian Process Regression -- Chapter16: Modeling Rail-vehicle Coupled Dynamics by a Time-varying Substructuring Scheme -- Chapter17: Planning of a Black-box Benchmark Structure for Dynamic Substructuring -- Chapter18: Study on The Technology of Reliable Life Prediction of Plate Heat Exchanger for Ship -- Chapter19: Real-Time Hybrid Substructuring Results of the Mars Pathfinder Parachute Deployment.

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#### Sommario/riassunto

Dynamics of Coupled Structures, Volume 4: Proceedings of the 37th IMAC, A Conference and Exposition on Structural Dynamics, 2019, the fourth volume of eight 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: Methods for Dynamic Substructures Applications for Dynamic Substructures Interfaces & Substructuring Frequency Based Substructuring Transfer Path Analysis .

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