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Ν	lota di contenuto	Co-existing Responses in a Harmonically-excited Nonlinear Structural System Complex Behavior of a Buckled Beam Under Combined Harmonic and Random Loading The Harmonic Balance Method for Advanced Analysis and Design of Nonlinear Mechanical Systems A Framework for the Computational Dynamic Analysis of Coupled Structures Using Nonlinear Modes Model Updating of Nonlinear Structures Detection of Nonlinear Behaviour of Composite Components Before and After Endurance Trials Nonlinear Time Series Analysis Using Bayesian Mixture of Experts Identifying Robust Subspaces for Dynamically Consistent Reduced-Order Models Identification of Sub and Higher Harmonic Vibrations in Vibro-Impact Systems An Efficient Simulation Method for Structures With Local

	Nonlinearity Parametric Nonlinearity Identification of a Gearbox From Measured Frequency Response Data Nonlinear Gear Transmission System Numerical Dynamic Analysis and Experimental Validation A Stochastic Framework for Subspace Identification of a Strongly Nonlinear Aerospace Structure Identification of Agricultural Tyres' Handling Characteristics From Full Scale Experimental Tests Nonparametric Analysis and Nonlinear State-space Identification: A Benchmark Example Nonlinear Black-box Identification of a Mechanical Benchmark System Suppression of Multiple Order Friction Torque Fluctuations With Modulated Actuation Pressure Nonlinear Structural Coupling Experimental Application State Estimation in Nonlinear Structural Systems An Efficient Exponential Integrator for Large Stiff Systems: Part 1: Theoretical Investigation An Efficient Exponential Integrator for Large Stiff System: Part 2: Symplecticity and Global Error Analysis Vibration Suppression of a Flexible Parallel Kinematic Manipulator Analysis of Nonlinear System Response to an Impulse Excitation Experimental Evaluation of Veering Crossing and Lock-in Occurring in Parameter Varying Systems.
Sommario/riassunto	This critical collection examines a range of nonlinear dynamics, from nonlinear modal analysis to nonlinear systems to nonlinear modeling & simulation, as presented in early findings and case studies from the Proceedings of the 32nd IMAC, A Conference and Exposition on Structural Dynamics, 2014. The collection includes papers in the following general technical research areas: Nonlinear Oscillations Nonlinear Simulation Using Harmonic Balance Nonlinear Modal Analysis Nonlinear System Identification Nonlinear Modeling & Simulation Nonlinearity in Practice Nonlinear Systems Round Robin on Nonlinear System Identification.