



Nonlinear Dynamics, Volume 2

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Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the 32nd IMAC, A Conference and Exposition on Structural Dynamics, 2014 | This second volume of eight from the IMAC - XXXII 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:Linear SystemsSubstructure ModellingAdaptive $Structures Experimental\ Techniques Analytical\ Methods Damage\ Detection Damping\ of\ Materials\ \&$ ${\tt Members Modal\ Parameter\ Identification Modal\ Testing\ Methods System\ Identification Active}$ ControlModal Parameter EstimationProcessing Modal Data | 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...



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