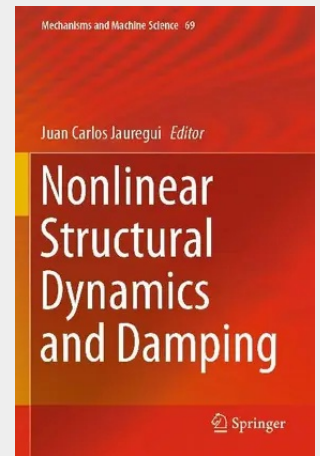


Nonlinear Structural Dynamics and Damping

This book compiles recent research in the field of nonlinear dynamics, vibrations and damping applied to engineering structures. It addresses the modeling of nonlinear vibrations in beams, frames and complex mechanical systems, as well as the modeling of damping systems and viscoelastic materials applied to structural dynamics. The book includes several chapters related to solution techniques and signal analysis techniques. Last but not least, it deals with the identification of nonlinear responses applied to condition monitoring systems.

Describes new models to analyze nonlinear structures in detail
Includes new analysis techniques to understand the dynamic behavior of complex structures
Includes new signal analysis techniques applicable to structural dynamics



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