

1. Record Nr.	UNINA9910337629003321
Titolo	Nonlinear Structural Dynamics and Damping // edited by Juan Carlos Jauregui
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-13317-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (324 pages)
Collana	Mechanisms and Machine Science, , 2211-0984 ; ; 69
Disciplina	624.171 624.17
Soggetti	Machinery Statistical physics Vibration Dynamical systems Dynamics Machinery and Machine Elements Applications of Nonlinear Dynamics and Chaos Theory Vibration, Dynamical Systems, Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. 1 New trends in nonlinear dynamics of structures -- 2 Time-frequency techniques for identifying nonlinear responses -- 3 Non parametric analysis techniques applied to nonlinear dynamics -- 4 Modeling of friction and damping in machinery -- 5 Modelling of nonlinear vibrations of beams and frames -- 6 Nonlinear dynamics of complex mechanical systems -- 7 Measurement of dynamic variables applied to structures and machinery -- 8 Case Studies.
Sommario/riassunto	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

