1. Record Nr. UNINA9910416527003321

Titolo	Advances in Rotor Dynamics, Control, and Structural Health Monitoring [[electronic resource]] : Select Proceedings of ICOVP 2017 / / edited by Subashisa Dutta, Esin Inan, Santosha Kumar Dwivedy
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-5693-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (615 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4356
Disciplina	620.3
Soggetti	Vibration Dynamical systems Dynamics Acoustical engineering Aerospace engineering Astronautics Statics Vibration, Dynamical Systems, Control Engineering Acoustics Aerospace Technology and Astronautics Mechanical Statics and Structures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Estimation of Inertial Parameters of a Rigid Rotor Having Dynamic Unbalance on Active Magnetic Bearing -- Sommerfeld effect characterization in anisotropic non-ideal rotor system -- A Study On Multicomponent Failure Interactions Within a Planetary Gearbox Of a Wind Turbine -- Thrust bearing influence on the stability analysis of turbocharger rotor bearing system -- Impact of Unsteady Aerodynamic Loads on A Large-Scale Horizontal Axis Wind Turbine Rotor in Axial Motion -- Simultaneous estimation of speed dependent parameters in a coupled turbo-generator system.
Sommario/riassunto	This book consists of selected and peer-reviewed papers presented at the 13th International Conference on Vibration Problems (ICOVP 2017).

The topics covered in this book are broadly related to the fields of structural health monitoring, vibration control and rotor dynamics. In the structural health monitoring section studies on nonlinear dynamic analysis, damage identification, viscoelastic model of concrete, and seismic damage assessment are thoroughly discussed with analytical and numerical techniques. The vibration control part includes topics such as multi-storeyed stacked tuned mass dampers, vibration isolation with elastomeric mounts, and nonlinear active vibration absorber. This book will be useful for beginners, researchers and professionals interested in the field of vibration control, structural health monitoring and rotor dynamics. .