1. Record Nr. UNINA9910337631503321

Titolo	Advances in Condition Monitoring of Machinery in Non-Stationary Operations : Proceedings of the 6th International Conference on Condition Monitoring of Machinery in Non-Stationary Operations, CMMNO'2018, 20-22 June 2018, Santander, Spain / / edited by Alfonso Fernandez Del Rincon, Fernando Viadero Rueda, Fakher Chaari, Radoslaw Zimroz, Mohamed Haddar
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-11220-9
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XI, 423 p. 274 illus., 218 illus. in color.)
Collana	Applied Condition Monitoring, , 2363-698X ; ; 15
Disciplina	670 620
Soggetti	Manufactures Vibration Dynamical systems Dynamics Signal processing Image processing Speech processing systems Physics Manufacturing, Machines, Tools, Processes Vibration, Dynamical Systems, Control Signal, Image and Speech Processing Numerical and Computational Physics, Simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Condition Monitoring in Non-Stationary Operations -- Extraction of Weak Bearing Fault Signatures from Non-Stationary Signals Using Parallel Wavelet Denoising -- Neighbor Retrieval Visualizer for Monitoring Lifting Cranes -- Monitoring and Diagnostic Systems -- Convolutional Neural Networks for Fault Diagnosis Using Rotating

Speed Normalized Vibration -- Monitoring of a High-Speed Train Bogie Using the EMD Technique -- Default Detection in a Back-To-Back Planetary Gear-Box through Current and Vibration Signals -- Noise and Vibration in Machines -- Identification of Torsional Vibration Modal Parameters: Application on a Ferrari Engine Crankshaft -- Experimental Characterization of Metal-Mesh Isolators Damping Capacity by Constitutive Mechanical Model -- Signal Processing -- Separation of Impulse from Oscillation for Detection of Bearing Defect in the Vibration Signal -- Vibro-Acoustic Diagnosis of Machinery -- Cyclo-Non-Stationary Based Bearing Diagnostics of Planetary Gearboxes -- Cyclostationary Approach for Long Term Vibration Data Analysis -- Monitoring of Soil Density During Compaction Processes.

Sommario/riassunto

This book is aimed at researchers, industry professionals and students interested in the broad ranges of disciplines related to condition monitoring of machinery working in non-stationary conditions. Each chapter, accepted after a rigorous peer-review process, reports on a selected, original piece of work presented and discussed at the International Conference on Condition Monitoring of Machinery in Non-stationary Operations, CMMNO’2018, held on June 20 – 22, 2018, in Santander, Spain. The book describes both theoretical developments and a number of industrial case studies, which cover different topics, such as: noise and vibrations in machinery, conditioning monitoring in non-stationary operations, vibro-acoustic diagnosis of machinery, signal processing, application of pattern recognition and data mining, monitoring and diagnostic systems, faults detection, dynamics of structures and machinery, and mechatronic machinery diagnostics.