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	Titolo	Advances in Condition Monitoring of Machinery in Non-Stationary Operations : Proceedings of the 5th International Conference on Condition Monitoring of Machinery in Non-stationary Operations, CMMNO'2016, 12–16 September 2016, Gliwice, Poland / / edited by Anna Timofiejczuk, Fakher Chaari, Radoslaw Zimroz, Walter Bartelmus, Mohamed Haddar
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	Edizione	[1st ed. 2018.]
	Descrizione fisica	1 online resource (X, 373 p. 206 illus., 159 illus. in color.)
	Collana	Applied Condition Monitoring, , 2363-698X ; ; 9
	Disciplina	621.816
	Soggetti	Vibration
		Dynamical systems
		Dynamics
		Signal processing
		Image processing
		Speech processing systems
		Mathematical models
		Manufactures
		Vibration, Dynamical Systems, Control
		Signal, Image and Speech Processing
		Mathematical Modeling and Industrial Mathematics
		Manufacturing, Machines, Tools, Processes
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
	Sommario/riassunto	This book provides readers with a snapshot of recent methods for non-stationary vibration analysis of machinery. It covers a broad range of advanced techniques in condition monitoring of machinery, such as mathematical models, signal processing and pattern recognition

methods and artificial intelligence methods, and their practical applications to the analysis of nonstationarities. 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'2016, held on September 12 – 16, 2016, in Gliwice, Poland. The contributions cover advances in both theory and practice in a variety of subfields, such as: smart materials and structures; fluid-structure interaction; structural acoustics as well as computational vibro-acoustics and numerical methods. Further topics include: engines control, noise identification, robust design, flow-induced vibration and many others. By presenting state-of-the-art in predictive maintenance solutions and discussing important industrial issues the book offers a valuable resource to both academics and professionals and is expected to facilitate communication and collaboration between the two groups.