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Titolo	Value Based and Intelligent Asset Management [[electronic resource]] : Mastering the Asset Management Transformation in Industrial Plants and Infrastructures / / edited by Adolfo Crespo Márquez, Marco Macchi, Ajith Kumar Parlikad
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Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXIV, 403 p.)
Disciplina	658.56
Soggetti	Quality control Reliability Industrial safety Production management Computer-aided engineering Manufactures Engineering economics Engineering economy Quality Control, Reliability, Safety and Risk Production Computer-Aided Engineering (CAD, CAE) and Design Manufacturing, Machines, Tools, Processes Engineering Economics, Organization, Logistics, Marketing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I: Long Term Vision for Proper Assets Management -- Part II: Focusing on Value-Based Assets Management -- Part III: Advances in Operational Decision Making – CBM/PHM -- Part IV: Emerging Intelligent Assets Management Processes.
Sommario/riassunto	The fundamental motivation of this book is to contribute to the future advancement of Asset Management in the context of industrial plants and infrastructures. The book aims to foster a future perspective that

takes advantage of value-based and intelligent asset management in order to make a step forward with respect to the evolution observed nowadays. Indeed, the current understanding of asset management is primarily supported by well-known standards. Nonetheless, asset management is still a young discipline and the knowledge developed by industry and academia is not set in stone yet. Furthermore, current trends in new organizational concepts and technologies lead to an evolutionary path in the field. Therefore, this book aims to discuss this evolutionary path, starting first of all from the consolidated theory, then moving forward to discuss: • The strategic understanding of value-based asset management in a company; • An operational definition of value, as a concept on the background of value-based asset management; • The identification of intelligent asset management, with the aim to frame a set of “tools” recommended to support the asset-related decision-making process over the asset lifecycle; • The emergence of new technologies such as cyber physical systems and digital twins, and the implications of this on asset management. .