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| Titolo | Ontology Modeling in Physical Asset Integrity Management / / edited by Vahid Ebrahimipour, Soumaya Yacout |
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| ISBN | 3-319-15326-9 |
| Edizione | [1st ed. 2015.] |
| Descrizione fisica | 1 online resource (278 p.) |
| Disciplina | 519<br>620<br>658.5<br>658514 |
| Soggetti | Engineering economy<br>Applied mathematics<br>Engineering mathematics<br>Management<br>Industrial management<br>Engineering Economics, Organization, Logistics, Marketing<br>Mathematical and Computational Engineering<br>Innovation/Technology Management |
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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | ISO15926 -- Ontological Analysis and Engineering Standards: An Initial Study of IFC -- FMEA, HAZID and Ontologies -- Ontology Development and Optimization for Data Integration and Decision Making in Product Design and Obsolescence Management -- Fault Diagnosis System based on ontology for fleet case reused -- Integrating Cultural and Regulatory factors in the Bowtie: Moving from Hand-waving to Rigor -- Addressing uncertainty in estimating the cost for a Product-Service-System Delivering Availability -- Ontology-Based Knowledge Platform to Support Equipment Health in Plant Operations. |
| Sommario/riassunto | This book presents cutting-edge applications of, and up-to-date research on, ontology engineering techniques in the physical asset |

integrity domain. Though a survey of state-of-the-art theory and methods on ontology engineering, the authors emphasize essential topics including data integration modeling, knowledge representation, and semantic interpretation. The book also reflects novel topics dealing with the advanced problems of physical asset integrity applications such as heterogeneity, data inconsistency, and interoperability existing in design and utilization. With a distinctive focus on applications relevant in heavy industry, Ontology Modeling in Physical Asset Integrity Management is ideal for practicing industrial and mechanical engineers working in the field, as well as researchers and graduate concerned with ontology engineering in physical systems life cycles. This book also: Introduces practicing engineers, research scientists, and graduate students to ontology engineering as a modeling technique applicable in large-scale and complex system engineering Maximizes readers' understanding of the concepts of physical and plant asset integrity as they affect production and environment sustainability Emphasizes interoperability and interrelation among the different stages of a system life cycle analysis in complex, industrial facilities Features a glossary, a bibliography, and example problems/solutions illustrating applications of ontology engineering in industry.