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| Titolo | Corrosion Processes : Sensing, Monitoring, Data Analytics, Prevention/Protection, Diagnosis/Prognosis and Maintenance Strategies // edited by George Vachtsevanos, K. A. Natarajan, Ravi Rajamani, Peter Sandborn |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020 |
| ISBN | 3-030-32831-7 |
| Edizione | [1st ed. 2020.] |
| Descrizione fisica | 1 online resource (VII, 339 p. 266 illus., 188 illus. in color.) |
| Collana | Structural Integrity, , 2522-560X ; ; 13 |
| Disciplina | 620.11223 |
| Soggetti | Tribology Corrosion and anti-corrosives Coatings Engineering—Materials Materials science Quality control Reliability Industrial safety Tribology, Corrosion and Coatings Materials Engineering Characterization and Evaluation of Materials Quality Control, Reliability, Safety and Risk |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction -- Principles of Corrosion Processes -- Corrosion Sensing- Corrosion Prevention -- Corrosion Analytics -- Corrosion Modeling -- Corrosion Diagnosis and Prognosis -- Assessing the Value of Corrosion Mitigation in Electronic Systems Using Cost-Based FMEA – Tin Whisker Mitigation. |
| Sommario/riassunto | This book discusses relevant topics in field of corrosion, from sensing strategies to modeling of control processes, corrosion prevention, detection of corrosion initiation, prediction of corrosion growth and |

evolution, to maintenance practices and return on investment. Written by leading international experts, it combines mathematical and scientific rigor with multiple case studies, examples, colorful images, case studies and numerous references exploring the essentials of corrosion in depth. It appeals to a wide readership, including corrosion engineers, managers, students and industrial and government staff, and can serve as a reference text for courses in materials, mechanical and aerospace engineering, as well as anyone working on corrosion processes.
