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Nota di contenuto	1 Introduction -- 2 Basics of corrosion -- 3 Simulation of Cathodic Protection of Buried Steel Pipeline under coating disbondments -- 4 Numerical Modelling of CP Systems for Marine Offshore Structures -- 5 Advances in Use of Internal Corrosion Predictive Modelling on Buried Oil & Gas Pipelines.
Sommario/riassunto	<p>This book is devoted to explaining advanced modelling practices of corrosion management. The eleven expert-authored chapters cover various aspects of corrosion management, from the basics of corrosion and its underlying definitions and concepts to the use of specific methods such as fuzzy logic or TRIZ (Russian: Theory of Inventive Problem Solving) for modeling specific corrosion management practices or assets like pipelines. It features modeling of various corrosion processes and reactions via numerical analysis, machine learning, fuzzy calculus, and fuzzy logic. Each chapter is written by an expert in the field with significant experience, ensuring that the content is up-to-date and of the highest quality. This book is an essential resource for professionals in the industry who seek to enhance their understanding of corrosion and its management through state-of-the-art modeling methods.</p>