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Soggetti	Engineering design Tribology Corrosion and anti-corrosives Coatings Chemical engineering Fossil fuels Engineering Design Tribology, Corrosion and Coatings Industrial Chemistry/Chemical Engineering Fossil Fuels (incl. Carbon Capture)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- 1 Physico-Chemical Properties and Corrosiveness of Crude Oils and Petroleum Products -- 2 Fuel Additives -- 3 Fuel Oxygenates -- 4 Biofuels -- 5 Corrosion of Metallic Constructions and Equipment in Petroleum Products -- 6 Polymeric Materials in Systems for Transportation and Storage of Fuels -- 7 Corrosion Prevention and Control in Systems Containing Fuels -- 8 Corrosion Monitoring and Nondestructive Testing in Systems Containing Fuels -- 9 Cases of Typical and Unusual Corrosion of Tanks -- 10 History of Crude Oil and Petroleum Products -- Appendices -- Glossary -- Index.
Sommario/riassunto	This book treats corrosion as it occurs and affects processes in real-world situations, and thus points the way to practical solutions. Topics described include the conditions in which petroleum products are

corrosive to metals; corrosion mechanisms of petroleum products; which parts of storage tanks containing crude oils and petroleum products undergo corrosion; dependence of corrosion in tanks on type of petroleum products; aggressiveness of petroleum products to polymeric material; how microorganisms take part in corrosion of tanks and pipes containing petroleum products; which corrosion monitoring methods are used in systems for storage and transportation of petroleum products; what corrosion control measures should be chosen; how to choose coatings for inner and outer surfaces of tanks containing petroleum products; and how different additives (oxygenates, aromatic solvents) to petroleum products and biofuels influence metallic and polymeric materials. The book is of interest to corrosion engineers, materials engineers, oil and gas engineers, petroleum engineers, chemists, chemical engineers, mechanical engineers, failure analysts, scientists, and students, designers of tanks, pipelines and other systems for storage and transportation fuels, technicians.

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