Record Nr.	UNISA996466836903316
Titolo	Recent developments in analytical techniques for corrosion research / / Ihsan ulhaq Toor, editor
Pubbl/distr/stampa	Cham, Switzerland:,: Springer,, [2022] ©2022
ISBN	9783030891015 9783030891008
Edizione	[1st edition.]
Descrizione fisica	1 online resource (303 pages) : (VI, 306 p. 142 illus., 129 illus. in color.)
Disciplina	620.11223
Soggetti	Corrosion and anti-corrosives - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	IntroductionApplications of Photoelectrochemical Spectroscopy (PES) and Mott-Schottky Techniques in Corrosion ResearchVoltammetry and in-situ UV-Vis Absorbance Studies for Understanding Corrosion MechanismsThe Utilization of Scanning Electrochemical Microscopic (SCEM) Technique in Corrosion MonitoringElectrochemical Impedance Spectroscopy: A Useful Tool for Monitoring the Performance of Corrosion InhibitorsApplications of Liquid Cell-TEM in Corrosion ResearchApplications of Electrochemical Scanning Tunneling Microscopy in Corrosion ResearchRecent Trends in Applications of X-ray Photoelectron Spectroscopy (XPS) Technique in Coatings for Corrosion ProtectionApplications of Atomic Force Microscopy in Corrosion ResearchApplications of Erosion-Corrosion Models for the Oil and Gas Industry and ChallengesEffect of Hydrogen and Defects on Deformation and Failure of Austenitic Stainless SteelMolecular Modeling for Corrosion Inhibitor DesignHydrogen Embrittlement in Nickel-base Superalloy 718.

inhibitors) in various environments/contexts (aqueous corrosion, high-temperature corrosion). The book encourages researchers to develop new corrosion-resistant materials and supports them in devising suitable asset integrity strategies. Offering a valuable resource for researchers, industry professionals, and graduate students alike, the book shows them how to apply these valuable analytical tools in their work.