

Metallurgy And Corrosion Control In Oil And Gas Production

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Robert Heidersbach, PhD, is the President of Dr. Rust, Inc., a consulting firm that specializes in corrosion, metallurgy, and materials consulting for a variety of international clients, including oil and gas production, military hardware, construction, litigation, and failure analysis.He was previously a faculty member in ocean engineering at the University of Rhode Island, chemical ...

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Preface xiii 1 Introduction to Oilfi eld Metallurgy and Corrosion Control 1 Costs, 1 Safety, 2 Environmental Damage, 2 Corrosion Control, 3 2 Chemistry of Corrosion 4 Electrochemistry of Corrosion, 4 Electrochemical Reactions, 4 Electrolyte Conductivity, 5 Faraday's Law of Electrolysis, 5 Electrode Potentials and Current, 5 Corrosion Rate Expressions, 8 pH, 10 Passivity, 10 Potential-pH ...

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This book is intended for engineers and related professionals in the oil and gas production industries. It is intended for use by personnel with limited backgrounds in chemistry, metallurgy, and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated.

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