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Nota di contenuto	Cover; Title Page; Copyright Page; Dedication; Contents; About the Author; Preface; Acknowledgments; Chapter 1 - Surface Preparation for Coating, Painting, and Lining; 1.1 - Introduction; 1.2 - Selection of Cleaning Method; 1.2.1 - Initial Condition of Surface (Rust Grade); 1.2.2 - New Construction (Uncoated Surfaces); 1.2.3 - Maintenance (Coated Surface); 1.3 - Cleanliness of the Surfaces; 1.3.1 - Removal of Contaminants/Coats of Materials Other Than Metal; 1.3.2 - Removal of Coated Material Related to the Metal (Scale and Rust); 1.3.3 - Standard Level of Cleanliness 1.3.4 - Rust Converters, Rust Stabilizers, and Penetrating Agents 1.3.5 - Influence of Environmental Conditions on the Cleaning and Cleanliness of Surfaces; 1.3.6 - Testing of the Cleanliness of the Prepared Surfaces; 1.3.7 - Degree of Roughness (Surface Profile); 1.3.8 - Methods of Measurement; 1.4 - Temporary Protection of Prepared Surfaces Against Corrosion and Contamination; 1.5 - Preparation of Surfaces Protected by Temporary Coatings; 1.5.1 - Preparation of Joint Areas (Welded, Riveted, and Bolted joints); 1.5.2 - Preparation of Surfaces of Shop Primers, Base Coating, or Top Coatings 1.5.3 - Preparation of Hot-Dip Galvanized or Hot-Dip Aluminum-Coated Surfaces 1.6 - Inspection and Testing; 1.7 - Quality Systems; 1.8 - Procedure Qualification; 1.8.1 - Preparation Procedure Specifications; 1.8.2 - Preparation Procedure Approval Test; 1.9 - Degreasing; 1.10 - Hot Solvent Cleaning Method; 1.10.1 - Hot Solvent Cleaning-not Water

Rinsable; 1.10.2 - Hot Solvent Cleaning-Water Rinsable; 1.10.3 - Cold Solvent Cleaning; 1.10.4 - Cold Solvent-Not Water Rinsable; 1.10.5 - Cold Solvent-Water Rinsable; 1.10.6 - Emulsifiable Solvent Cleaning; 1.11 - Aqueous Alkaline and Detergent Cleaning; 1.12 - Steam Cleaning; 1.13 - Testing for Lack of Grease; 1.13.1 - Water Breaks Test; 1.13.2 - Grease Red Testing; 1.13.3 - Fluorescence Testing; 1.14 - Notes on Degreasing; 1.14.1 - Selection of Solvent; 1.14.2 - Reuse of Cleaning Solution; 1.14.3 - Protection of Cleaned Surfaces; 1.14.4 - Hazards of Solvent; 1.15 - Pickling; 1.15.1 - Pickling Methods; 1.15.2 - Hydrogen Embrittlement; 1.16 - Cleaning and Preparation of Metal Prior to Pickling; 1.17 - The Pickling Process; 1.17.1 - Sulphuric or Hydrochloric (Muriatic) Acid Pickling; 1.17.2 - Operations; 1.17.3 - Phosphoric Acid Pickling; 1.17.4 - Sulfuric Acid-Sodium Dichromated Pickling; 1.17.5 - Alkaline Pickling; 1.18 - Electrochemical Pickling; 1.18.1 - Cathodic Treatment in Acid Solution; 1.18.2 - Cathodic Treatment in Alkaline Solution; 1.18.3 - Anodic Treatment; 1.19 - Treatment of Metal After Pickling; 1.19.1 - Cold Rinsing; 1.19.2 - Final (Hot) Rinsing-Neutralizing; 1.19.3 - Preparing Metal for Painting; 1.20 - Appearance of Pickled Surfaces; 1.21 - Test Methods-Determining the Acid and Iron Content of Pickle Baths; 1.21.1 - Equipment Required; 1.21.2 - Reagents Required

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#### Sommario/riassunto

With the oil and gas industry facing new challenges-deeper offshore installations, more unconventional oil and gas transporting through pipelines, and refinery equipment processing these opportunity feedstocks--new corrosion challenges are appearing, and the oil and gas industry's infrastructure is only as good as the quality of protection provided and maintained. Essentials of Coating, Painting, and Linings for the Oil, Gas, and Petrochemical Industries is the first guide of its kind to directly deliver the necessary information to prevent and control corrosion for the components on the offs

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