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 2.3. Aqueous electrolysis: bases; 2.3.1. Electrolytic water decomposition; 2.3.2. Aqueous salt electrolysis; 2.3.3. Metal deposit and hydrogen production; 2.3.4. Electrodeposition of metals - deposit morphologies; 2.4. Electrowinning of copper; 2.4.1. Copper chloride electrolysis; 2.4.2. Copper sulfate electrolysis; 2.4.3. Electrolytic copper and blister copper electrorefining; 2.4.4. Electrorefining of copper matte; 2.5. Electrowinning of nickel; 2.5.1. Nickel chloride electrolysis; 2.5.2. Electrorefining of nickel
 2.5.3. Electrorefining of nickel matte
 2.6. Electrowinning of zinc; 2.6.1. Zinc sulfate electrolysis; 2.6.2. Ammonium chloride zinc electrolysis; 2.6.3. Sodium zincate electrolysis; 2.7. Electrorefining of lead; 2.8. Electrorefining of tin; 2.9. Cobalt electrowinning; 2.10. Bibliography; Chapter 3. Halide Extraction Processes; 3.1. Overview of the halide extraction processes; 3.2. Chlorination processes; 3.2.1. Thermodynamic data; 3.2.2. Mechanisms and kinetics; 3.2.3. Carbochlorination of ores; 3.3. Reduction of halides; 3.3.1. Hydrogen reduction; 3.3.2. Metallothermic reduction
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Sommario/riassunto

The Extractive Metallurgy series is devoted to the extraction of metals from ores and other sources, their refining to the state of either liquid or solid metal, and the various processes needed to carry out these operations. Using the methodology of chemical reaction engineering, this second volume in the series examines on the metallurgical reaction processes used in the extraction and refining operations, covering pyrometallurgical, hydrometallurgical, halide, and electro-metallurgical processes. It provides valuable information on the technologies and processes engineers encounter in indus