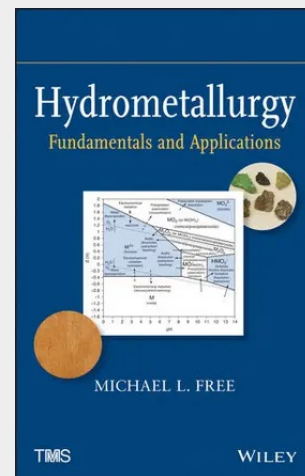


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## Hydrometallurgy

As the first book to compile the fundamentals, applications, reference information and analytical tools on the topic, Hydrometallurgy presents a condensed collection of information that can be used to improve the efficiency and effectiveness with which metals are extracted, recovered, manufactured, and utilized in aqueous media in technically viable and reliable, environmentally responsible, and economically feasible ways. Suitable for students and researchers, this college-level overview addresses Fundamentals of Chemical Metallurgy in Aqueous Media, Speciation and Phase Diagrams, Rate Processes in Aqueous Metal Processing, Aqueous Metal Extraction and Leaching, Fundamentals of Metal Concentration Processes and more.

Explores the fundamentals as well as the latest applications in hydrometallurgy With its unique blend of fundamentals, methods, and applications, this text provides a college-level introduction and overview of hydrometallurgy, the chemical processing of metals in aqueous solutions. The author provides an expertly organized collection of information and analytical tools for effective and efficient extraction, concentration, and recovery of metals from ores, concentrates, and recycled or residual materials. Moreover, readers will discover a broad range of hydrometallurgical methods that are both environmentally responsible and economically feasible. This text explores several essential topics that are generally not covered extensively in other hydrometallurgy texts, including aqueous electrometallurgy, aqueous corrosion, environmental hydrometallurgy, and metal utilization in aqueous media. In addition, the text covers such topics as: \* Speciation and phase diagrams \* Rate processes in aqueous metal processing \* Aqueous metal extraction and leaching \* Metal concentration processes \* Selective aqueous metal recovery phases \* Process design principles for aqueous processing of metals Hydrometallurgy also covers environmental regulations as well as remediation technologies. Detailed examples as well as illustrations throughout the chapters help readers fully grasp complex concepts and apply them in practice. At the end of the text, a group of appendices brings together valuable reference materials, including atomic weights, important constants, conversion factors, and laboratory calculations. Hydrometallurgy is written for students and professional engineers who use, produce, concentrate, or remove metals processed in aqueous media. The text's coverage of the fundamentals is ideal for readers new to the field, while its coverage of advanced topics enables more experienced engineers to take full advantage of the latest applications in hydrometallurgy.



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