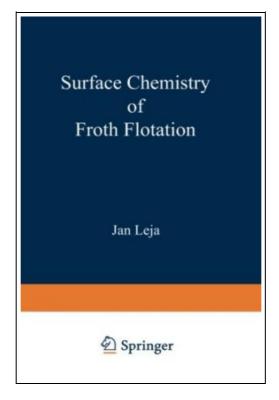
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SURFACE CHEMISTRY OF FROTH FLOTATION



Book Condition: New. Publisher/Verlag: Springer, Berlin | The process of froth flotation is an outstanding example of applied surface chemistry. It is extensively used in the mining, mineral, metallurgical, and chemical industries for separation and selective concentration of individual minerals and other solids. Substances so concentrated serve as raw materials for producing appropriate metals and chemicals. The importance of flotation in technology is chiefly due to the ease with which it can be made selective and versatile and to the economy of the process. The objective of this book is to review the fundamentals of surface chemistry together with the relevant aspects of organic and inorganic chemistry that-in the opinion of the author-are important ~ control of the froth flotation process. The review updates the information that had been available in books by Sutherland and Wark (1955), Gaudin (1957), Klassen and Mokrousov (1963), and Glembotsky et al. (1963). It emphasizes mainly the surface chemical aspects of the process, leaving other relevant topics such as hydrodynamics, mechanical and electrical technology, cir cuit design and engineering, operations research, instrumentation tech nology, modeling, etc., to appropriate specialized treatments. | I. Introduction.- 1.1. Scope of Froth Flotation.- 1.2. An Outline of a Mineral Flotation System, Definitions.- 1.3. Typical Flotation Procedures and Flowsheets.- 1.4. Mineral Liberation Size.- 1.5. Some Problems Encountered in Separations of Minerals.- 1.6. Examples of Industrial Separations of Sulfide Minerals.- 1.6.1. Lead-Zinc Ores.- 1.6.2. Copper Ores.- 1.7. Examples of Industrial Separations of Oxidized Ores of Copper, Lead, Zinc, Iron, and "Nonmetallic" Minerals.- 1.7.1. Separations of the Superficially Oxidized and Oxide-Type Minerals.- 1.7.2. Separations of the "Nonmetallic" Industrial Minerals.- 1.8. Separation of "Soluble Salts" from Saturated Brines.- 1.9. Flotation of Silicate Minerals.- 1.10. Separation of Naturally Hydrophobic Minerals.- 1.11. Re



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