Handbook of Flotation Reagents: Chemistry, Theory and Practice

Description: Handbook of Flotation Reagents: Chemistry, Theory and Practice: Flotation of Gold, PGM and Oxide Minerals, Volume 2 focuses on the theory, practice, and chemistry of flotation of gold, platinum group minerals (PGMs), and the major oxide minerals, along with rare earths. It examines separation methods whose effectiveness is limited when using conventional treatment processes and considers commercial plant practices for most oxide minerals, such as pyrochlore-containing ores, copper cobalt ores, zinc ores, tin ores, and tantalum/niobium ores. It discusses the geology and mineralogy of gold, PGMs, and oxide minerals, as well as reagent and flotation practices in beneficiation.

The book also looks at the factors affecting the floatability of gold minerals and describes PGM-dominated deposits such as Morensky-type deposits, hydrothermal deposits, and placer deposits. In addition, case studies of flotation and beneficiation in countries such as Canada, Africa, Russia, Chile, and Saudi Arabia are presented.

This book will be useful to researchers, university students, and professors, as well as mineral processors faced with the problem of beneficiation of difficult-to-treat ores.

- Looks at the theoretical aspects of flotation reagents
- Examines the practical aspects of using chemical reagents in operating plants
- Provides guidelines for researchers and engineers involved in process design and development

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Chapter 17. Flotation of Gold Ores

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Chapter 19. Flotation of Oxide Copper and Copper Cobalt Ores

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Chapter 21. Flotation of Tin Minerals

Chapter 22. Flotation of Niobium

Chapter 23. Flotation of Tantalum/Niobium Ores

Chapter 24. Flotation of REO Minerals

Chapter 25. Flotation of Titanium Minerals

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