

Surface Chemistry Of Froth Flotation

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th the technology of froth flotation invented in the early 20 century was first used for the concentration of sulfide minerals since then it has been applied for the processing of many nonsulfide ores as well including oxides carbonates silicates soluble minerals like halite and

sylvite and energy minerals like coal and bitumen in recent years it has been used for several nonmineral applications such as waste water treatment deinking of paper for recycling and resource recovery from industrial wastes the technology continues to grow with new applications reported every year flotation is based on chemical phenomena occurring at the interfaces solid water and air water surface chemistry principles have played a significant role in the development of flotation technology knowledge of aqueous solution chemistry and electrochemistry has added to our understanding of the reactions in flotation systems professor jan leja's book has well served researchers and students as they tried to understand the chemistry of flotation and it is a significant contribution to the advancement of knowledge however since the book was first published new research techniques and ever growing information have made an update necessary the revised edition compiled by dr s r rao has brought together fundamental aspects of the chemistry of flotation and how they apply to practical systems it should serve all who are working in the area of flotation and interested in exploring new applications of flotation technology

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 giombotsky et al 1963 it emphasizes mainly the surface chemical aspects of the process leaving other relevant topics such as hydrodynamics mechanical and electrical technology circuit design and engineering operations research instrumentation technology modeling etc to appropriate specialized treatments

the second edition of the book surface chemistry of froth flotation by dr s r rao presents many significant advances of the 20 years since the publication of the first edition including electrochemistry of sulfide flotation use of chelating compounds in flotation mechanism of activation and depression inadvertent activation fine particle flotation and several others of current interest to flotation engineers researchers and graduate students dr rao has gathered recent published information and integrated it with established knowledge under various topics the book also describes areas of ongoing research in the subject

quot froth flotation a century of innovation comprehensively describes state of the art research and practice in mineral froth flotation a century after its introduction recognized

experts from around the world provide in depth coverage on many facets of flotation including the historical aspects fundamentals chemistry flotation cells modeling and simulation and flotation plant practice this commemorative volume is an invaluable reference for industry professionals researchers and graduate students book jacket

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