



Surface Chemistry of Froth Flotation: Volume 1: Fundamentals

S. Ramachandra Rao

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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.

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