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Book Review

ANN N. CLARKE and DAVID J. WILSON: Foam Flotation–Theory and Applications, Dekker, New York, 1983, $65.00.

Foam Flotation is Volume 13 in the Chemical Industries Series of reference and textbooks published by Marcel Dekker, Inc. The authors state as objectives of this treatise (1) to provide newcomers to the field with a comprehensive guide to the literature, (2) to list the applications and possibilities of foam flotation techniques, (3) to review precipitate and adsorbing colloid flotation with emphasis on resource recovery and industrial waste treatment, and (4) to provide mathematical analyses of a number of physical models to elucidate foam flotation phenomena.

Chapter 1 presents an overview of foam fractionation methods; Chapter 2 reviews laboratory methods in foam flotation; Chapter 3 deals with fluid mechanics; Chapters 4 and 5 cover particles flotation on the microscopic and macroscopic level, respectively; Chapter 6 covers solvent sublation; Chapter 7 concludes with some aspects of foam flotation that are still in the development stage. The Appendix presents a comprehensive literature review and applications in both wastewater treatment and other large scale applications.

The very comprehensive literature citations, e.g., 338 in the Appendix, make this book a valuable reference source, particularly to the newcomer in the field. Likewise, citations of standard texts in mineral processing serve as a guide to the newcomer. On the other hand, design considerations and detailed mathematical coverage of flotation will be useful to advanced research workers in resource recovery and waste treatment.

In line with the theme of the Chemical Industries Series, the authors have met the objective in presenting a treatise that is useful both as a reference work and as a textbook.

M. J. Schick