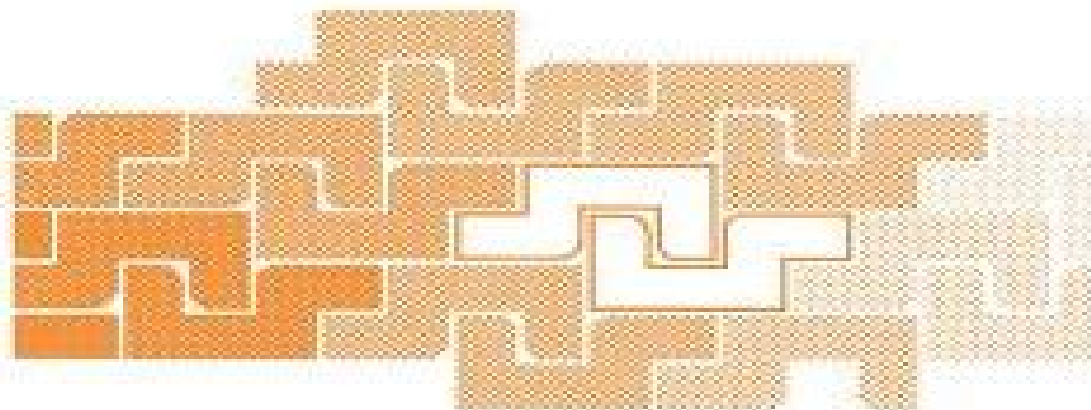




The Scientific Basis of Flotation

Edited by
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Scientific Basis of Flocculation K.J. Ives, 2012-12-06 K J Ives Professor of Public Health Engineering University College London The aggregation of small particles in liquids to form flocs which are large enough to settle or to be filtered is a common operation in industrial processes and water and wastewater treatment This aggregation given the general title

floculation in this book may be brought about by the addition of chemicals to reduce the stability of the original suspension by neutralising electrical forces of repulsion by the addition of chemicals polymers to link particles by bridging action by the addition of chemicals which form particles to increase collision probabilities and by the input of energy leading to hydrodynamically induced collisions The particles undergoing flocculation may range from colloidal in the nanometer size range through microscopic micron size up to visible particles in the millimeter size range that is a total size range of six orders of magnitude Consequently the colloid chemist and the hydrodynamicist are both concerned with the interactions that take place and to them the engineer must turn to obtain the fundamental information necessary for the process design and its associated hardware

Handbook of Flotation Reagents: Chemistry, Theory and Practice Srdjan M. Bulatovic, 2007-02-19

Handbook of Flotation Reagents Chemistry Theory and Practice is a condensed form of the fundamental knowledge of chemical reagents commonly used in flotation and is addressed to the researchers and plant metallurgists who employ these reagents Consisting of three distinct parts 1 provides detailed description of the chemistry used in mineral processing industry 2 describes theoretical aspects of the action of flotation reagents 3 provides information on the use of reagents in over 100 operating plants treating Cu Cu Zn Cu Pb Zn Pb Zn Ag Cu Ni and Ni 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

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006

Flotation Technology Lawrence K. Wang, Nazih K. Shammash, William A. Selke, Donald B. Aulenbach, 2010-06-09

The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Since pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved This book is one of the volumes of the Handbook of Environmental Engineering series The principal intention of this series is to help readers formulate answers to the last two questions above The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However the realization of the ever increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken

Extractive Metallurgy of Molybdenum C. K. Gupta, 2017-11-13

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Surface and Interface Science, Volumes 9 and 10 Klaus Wandelt, 2020-03-30 In ten volumes this unique handbook covers all fundamental aspects of surface and interface science and offers a comprehensive overview of this research area for scientists working in the field as well as an introduction for newcomers Volume 1 Concepts and Methods Volume 2 Properties of Elemental Surfaces Volume 3 Properties of Composite Surfaces Alloys Compounds Semiconductors Volume 4 Solid Solid Interfaces and Thin Films Volume 5 Solid Gas Interfaces I Volume 6 Solid Gas Interfaces II Volume 7 Liquid and Biological Interfaces Volume 8 Interfacial Electrochemistry Volume 9 Applications of Surface Science I Volume 10 Applications of Surface Science II Content of Volumes 8 9 Surface Analytics with X Ray Photoelectron and Auger Electron Spectroscopy on Coated Steel Sheets Applications of Graphene Industrial Heterogeneous Catalysis Automotive Catalysis High Throughput Heterogeneous Catalyst Research Development Scale Up and Production Support Industrial Separation of Insulating Particles Triboelectric Charging Friction Friend and Foe Surface Science and Flotation Application of Surface Science to Corrosion Electrons Electrodes and the Transformation of Organic Molecules Self Cleaning Surfaces From Fundamental Aspect to Real Technical Applications Thin Films Sputtering PVD Methods and Applications Wafer Bonding Superconformal Deposition Spintronics Surface and Interface Aspects Device Efficiency of Organic Light Emitting Diodes Dye Sensitized Solar Cells Electronic Nose Current Status and Future Trends Surface Science in Batteries Surface and Interface Science in Fuel Cells Research

Handbook of Advanced Industrial and Hazardous Wastes Management Lawrence K. Wang, Mu-Hao S. Wang, Yung-Tse Hung, Nazih K. Shammash, Jiaping Paul Chen, 2017-10-30 This volume provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on specific industrial and manufacturing wastes and their remediation Topics include heavy metals electronics chemical and textile manufacturing

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