1. Record Nr. UNINA9910484693103321

Autore	Shen Zhengchang
Titolo	Principles and technologies of flotation machines / / Zhengchang Shen
Pubbl/distr/stampa	Beijing, China ; ; Gateway East, Singapore : , : Metallurgical Industry Press : , : Springer, , [2021] ©2021
ISBN	981-16-0332-4
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIII, 487 p. 345 illus., 257 illus. in color.)
Collana	Springer Tracts in Mechanical Engineering, , 2195-9862
Disciplina	622.752
Soggetti	Flotation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Dynamics of Flotation Procedure -- Characteristics of the Flotation Machines Hydrodynamics -- Numerical Simulation and Experimental Study of the Flow -- Principle and Methods of the Scale-up Design -- Air-induced Flotation Machine -- Air-forced Flotation Machine -- Floatation Machine for Minerals with Wide Particle Size Range -- Process Control System -- Design of Flotation Circuit.
Sommario/riassunto	This book highlights the principles and technologies of flotation machine mainly used in mineral processing in detail. Froth flotation is one of the most important mineral processing techniques. Over 90% of the nonferrous minerals and 50% of the ferrous minerals in the world are treated using flotation: a complicated technique including procedures from chemistry, physics and multi-scale fluid mechanics. The book introduces readers to air-forced and air-induced flotation cells and discusses the various mechanical structures and working principles involved. A number of examples from industrial engineering practice are also discussed throughout the book, helping readers to better understand the technology and relevant equipment. The book is intended for researchers, professionals and graduate students in the fields of mining and mineral processing engineering.

2. Record Nr. UNINA9910346944403321

Autore	Sebbar Nadia
Titolo	Thermochemistry and Kinetics for the Oxidative Degradation of Dibenzofuran and Precursors
Pubbl/distr/stampa	KIT Scientific Publishing, 2006
ISBN	1000005428
Descrizione fisica	1 online resource (VIII, 219 p. p.)
Soggetti	Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The emission of dibenzofurans and dioxins from industrial processes is a major environmental concern. Focussing on dibenzofuran, this study tend to improve our understanding of the general oxidation chemistry and to provide a mechanism suitable for future modelling studies. Based on quantum chemical methods, energies, chemical structures and reactions are calculated numerically. Not only stable molecules and radicals, but also transition states are reported in this work.