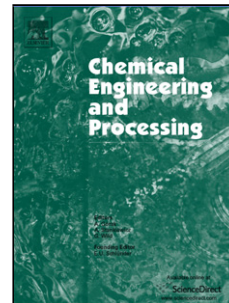


Accepted Manuscript

Title: Flotation Technique: Its Mechanisms and Design Parameters

Authors: Ritesh Prakash, Subrata Kumar Majumder, Anugrah Singh



PII: S0255-2701(18)30250-2
DOI: <https://doi.org/10.1016/j.cep.2018.03.029>
Reference: CEP 7239

To appear in: *Chemical Engineering and Processing*

Received date: 28-2-2018
Revised date: 26-3-2018
Accepted date: 28-3-2018

Please cite this article as: Prakash R, Majumder SK, Singh A, Flotation Technique: Its Mechanisms and Design Parameters, *Chemical Engineering and Processing* (2018), <https://doi.org/10.1016/j.cep.2018.03.029>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Flotation Technique: Its Mechanisms and Design Parameters

Ritesh Prakash* ritesh.prakash@iitg.ernet.in , Subrata Kumar Majumder* skmaju@iitg.ernet.in ,
Anugrah Singh

Department of Chemical Engineering, Indian Institute of Technology Guwahati, India-781039

*Corresponding author

Prof. S. K. Majumder/ Mr. Ritesh Prakash

Department of Chemical Engineering, Indian Institute of Technology Guwahati, India-781039

Research Highlights

- The overview of the flotation techniques and design parameters.
- Details in design, analysis, optimization, operation, modelling is reported.
- Breakthrough analysis of flotation mechanism is done.
- Critical discussion on hydrodynamic parameters is reported.
- The measuring techniques of design parameters are also described.

Abstract

A knowledge of hydrodynamic characteristics is important because it helps in design, control, analysis, optimization, operation, and modelling of the system, which enhances the performance of process unit. This paper aims to provide the evaluation of the techniques of flotation and design parameters, which is required improving the separation efficiency of the flotation processes. Different components of flotation columns, flotation mechanism and design parameters like flow

Download English Version:

<https://daneshyari.com/en/article/7088649>

Download Persian Version:

<https://daneshyari.com/article/7088649>

[Daneshyari.com](https://daneshyari.com)