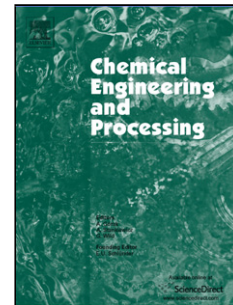


Accepted Manuscript

Title: Process intensification by pulsation and vibration in miscible and immiscible two component systems<!--<query id="Q2">Your article is registered as a regular item and is being processed for inclusion in a regular issue of the journal. If this is NOT correct and your article belongs to a Special Issue/Collection please contact s.alagesan@elsevier.com immediately prior to returning your corrections.</query>-->



Author: Abir Chakravorty

PII: S0255-2701(18)30858-4
DOI: <https://doi.org/10.1016/j.cep.2018.09.017>
Reference: CEP 7386

To appear in: *Chemical Engineering and Processing*

Received date: 18-7-2018
Revised date: 18-9-2018
Accepted date: 18-9-2018

Please cite this article as: { <https://doi.org/>

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.

Process intensification by Pulsation and Vibration in miscible and immiscible two component systems

Abir Chakravorty¹,

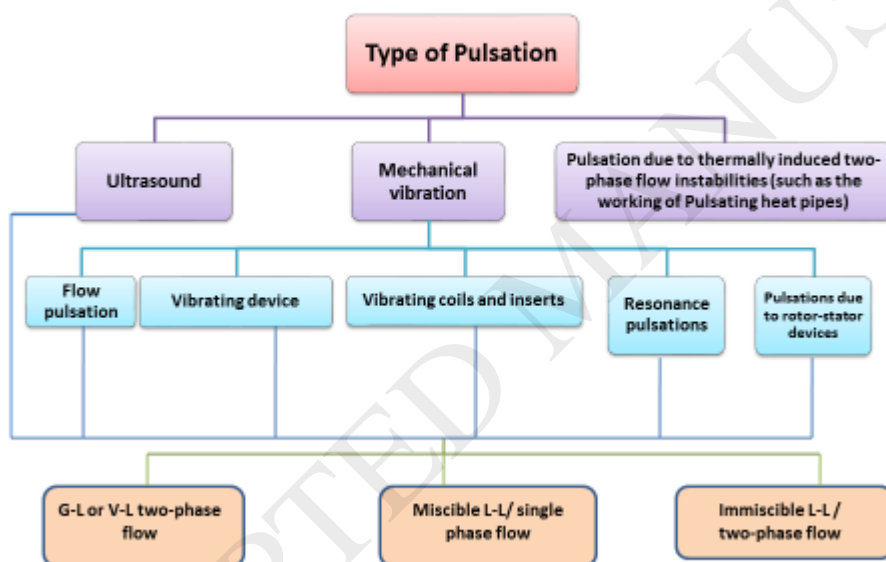
¹ Department of Chemical Engineering, Indian Institute of Technology Kharagpur, Kharagpur 721302, India

Primary email:- abir.cty007@gmail.com

Secondary email :- abirchemengg@iitkgp.ac.in

Postal address:- Abir Chakravorty, C/o Alok Kumar Chakravorty, Naskar Para, Ganney Gangadharapur, (Ashuti-1 G.P.), P.O.-Vivekanandapur, P.S.-Maheshtala, South 24 Parganas, West Bengal, India, Pin code - 700141

Graphical abstract



Highlights

- Large number of studies in gas-liquid flow.
- Vibration induced by mechanical devices have received a greater attention.
- Few studies have used flow pulsation as the means for process intensification.
- The behavior of liquid-liquid and liquid-solid flow with flow pulsation needs to be investigated.
- There are almost no studies on mass transfer in liquid-liquid two phase flow in microgravity.

ABSTRACT

The paper presents a brief review of the literature reported over the past six decades on Process Intensification using pulsation and vibration. The review encompasses gas-liquid and

Download English Version:

<https://daneshyari.com/en/article/11023653>

Download Persian Version:

<https://daneshyari.com/article/11023653>

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