

Accepted Manuscript

Title: Effects of surfactants on hydrodynamics and mass transfer in a co-current downflow contacting column

Author: Ramazan Orhan Gülbeyi dursun

PII: S0263-8762(16)00102-7

DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2016.02.030>

Reference: CHERD 2206

To appear in:

Received date: 10-4-2015

Revised date: 19-2-2016

Accepted date: 22-2-2016

Please cite this article as: ORHAN, R., DURSUN, G., Effects of surfactants on hydrodynamics and mass transfer in a co-current downflow contacting column, *Chemical Engineering Research and Design* (2016), <http://dx.doi.org/10.1016/j.cherd.2016.02.030>

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.



Highlights

- The co-current downflow contacting column (CDCC) was used in the experiments.
- The effect of surfactant addition on CDC column hydrodynamics were investigated.
- Empirical correlations were proposed for evaluating gas hold-up and volumetric mass transfer coefficient.
- The average error between the correlation predictions and experimental values were under 10%.

Download English Version:

<https://daneshyari.com/en/article/7006854>

Download Persian Version:

<https://daneshyari.com/article/7006854>

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