Accepted Manuscript

Amine based CO₂ capture - CFD simulation of absorber performance

Paweł Niegodajew, Dariusz Asendrych

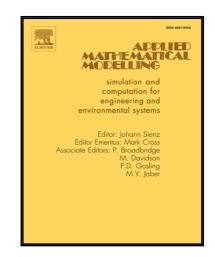
PII: \$0307-904X(16)30384-5 DOI: 10.1016/j.apm.2016.07.003

Reference: APM 11265

To appear in: Applied Mathematical Modelling

Received date: 3 December 2015

Revised date: 3 July 2016 Accepted date: 21 July 2016



Please cite this article as: Paweł Niegodajew , Dariusz Asendrych , Amine based CO_2 capture - CFD simulation of absorber performance, *Applied Mathematical Modelling* (2016), doi: 10.1016/j.apm.2016.07.003

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.

ACCEPTED MANUSCRIPT

Highlights

- A CFD absorber model linking flow hydrodynamics with CO₂ absorption was proposed
- Good correspondence between the model and a reference lab installation was found
- A parametric study of the absorber was performed, showing its performance
- Capture efficiency is slightly influenced by varying CO₂ content in flue gases



Download English Version:

https://daneshyari.com/en/article/8052371

Download Persian Version:

https://daneshyari.com/article/8052371

Daneshyari.com