

## Accepted Manuscript

Efficient simulation of chromatographic separation processes

Solomon F. Brown, Mark D. Ogden, Eric S. Fraga

PII: S0098-1354(17)30436-2  
DOI: [10.1016/j.compchemeng.2017.12.006](https://doi.org/10.1016/j.compchemeng.2017.12.006)  
Reference: CACE 5973

To appear in: *Computers and Chemical Engineering*

Received date: 27 June 2017  
Revised date: 27 November 2017  
Accepted date: 17 December 2017

Please cite this article as: Solomon F. Brown, Mark D. Ogden, Eric S. Fraga, Efficient simulation of chromatographic separation processes, *Computers and Chemical Engineering* (2017), doi: [10.1016/j.compchemeng.2017.12.006](https://doi.org/10.1016/j.compchemeng.2017.12.006)



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**

- An adaptive mesh refinement technique is extended to chromatographic problems
- A compact, high-order WENO scheme is applied in order to maintain accuracy
- For example problems, reductions in relative CPU runtime of over 90% are seen

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6594979>

Download Persian Version:

<https://daneshyari.com/article/6594979>

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