## Accepted Manuscript

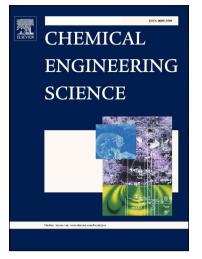
Accepted Date:

An effective three-marker drag model via sub-grid modeling for turbulent fluidization

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PII: DOI: Reference:	S0009-2509(18)30595-5 https://doi.org/10.1016/j.ces.2018.08.026 CES 14441
To appear in:	Chemical Engineering Science
Received Date:	2 June 2018
Revised Date:	23 July 2018

12 August 2018



Please cite this article as: L-T. Zhu, Y-X. Liu, Z-H. Luo, An effective three-marker drag model via sub-grid modeling for turbulent fluidization, *Chemical Engineering Science* (2018), doi: https://doi.org/10.1016/j.ces.2018.08.026

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## **ACCEPTED MANUSCRIPT**

## An effective three-marker drag model via sub-grid modeling for turbulent fluidization

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