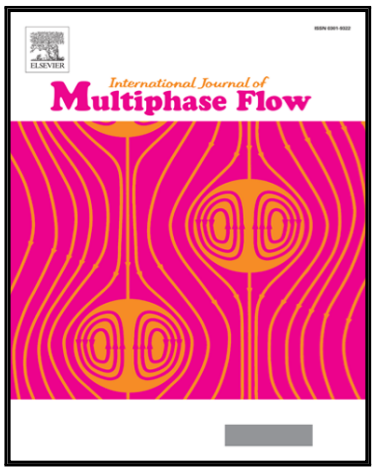
Accepted Manuscript



Direct Simulation Monte-Carlo predictions of coarse elastic particle statistics in fully developed turbulent channel flows: comparison with deterministic discrete particle simulation results and moment closure assumptions

Pascal Fede, Olivier Simonin

PII: S0301-9322(18)30303-3
DOI: 10.1016/j.ijmultiphaseflow.2018.06.005
Reference: IJMF 2833

To appear in: *International Journal of Multiphase Flow*

Received date: 19 April 2018
Revised date: 6 June 2018
Accepted date: 15 June 2018

Please cite this article as: Pascal Fede, Olivier Simonin, Direct Simulation Monte-Carlo predictions of coarse elastic particle statistics in fully developed turbulent channel flows: comparison with deterministic discrete particle simulation results and moment closure assumptions, *International Journal of Multiphase Flow* (2018), doi: 10.1016/j.ijmultiphaseflow.2018.06.005

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

- DSMC have been performed for fully developed turbulent particle-laden channel flows
- DSMC are in accordance with deterministic results
- Second-order moment closures approximations are evaluated from DSMC
- A model for taking into account the wall shelter effect in DSMC is proposed

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/10152027

Download Persian Version:

https://daneshyari.com/article/10152027

Daneshyari.com