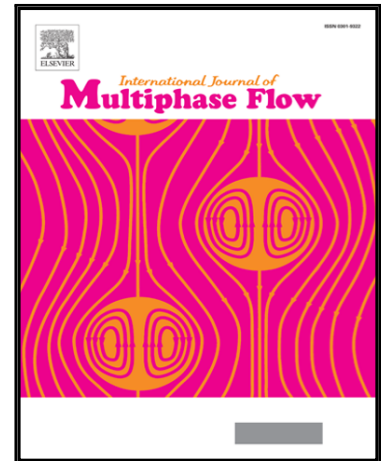


## Accepted Manuscript

Numerical study of particle deposition in a turbulent channel flow with transverse roughness elements on one wall

C.D. Dritselis

PII: S0301-9322(16)30302-0  
DOI: [10.1016/j.ijmultiphaseflow.2017.01.004](https://doi.org/10.1016/j.ijmultiphaseflow.2017.01.004)  
Reference: IJMF 2524



To appear in: *International Journal of Multiphase Flow*

Received date: 20 May 2016  
Revised date: 17 November 2016  
Accepted date: 15 January 2017

Please cite this article as: C.D. Dritselis , Numerical study of particle deposition in a turbulent channel flow with transverse roughness elements on one wall, *International Journal of Multiphase Flow* (2017), doi: [10.1016/j.ijmultiphaseflow.2017.01.004](https://doi.org/10.1016/j.ijmultiphaseflow.2017.01.004)

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**Highlights**

- Particle deposition on vertical walls roughened by transverse square bars is studied.
- Various values of particle response time and square bar spacing are examined.
- LES coupled with immersed boundary method and Lagrangian particle tracking are used.
- Particle deposition is increased due to flow changes by the bars and interception.

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