

## Accepted Manuscript

Modeling Study of Three-Phase Low Liquid Loading Flow in Horizontal Pipes

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PII: S0301-9322(16)30606-1  
DOI: [10.1016/j.ijmultiphaseflow.2017.01.003](https://doi.org/10.1016/j.ijmultiphaseflow.2017.01.003)  
Reference: IJMF 2523



To appear in: *International Journal of Multiphase Flow*

Received date: 11 October 2016  
Revised date: 13 January 2017  
Accepted date: 15 January 2017

Please cite this article as: H. Karami , E. Pereyra , C. Torres , C. Sarica , Modeling Study of Three-Phase Low Liquid Loading Flow in Horizontal Pipes , *International Journal of Multiphase Flow* (2017), doi: [10.1016/j.ijmultiphaseflow.2017.01.003](https://doi.org/10.1016/j.ijmultiphaseflow.2017.01.003)

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### Highlights

- Three-phase flow is modeled in near-horizontal pipes with stratified flow pattern.
- Liquid holdup, pressure gradient and interfacial wave characteristics are predicted.
- The oil-water mixing level in the liquid phase is estimated by an energy balance.
- Predictions are compared to several sets of experimental data in the literature.

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