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

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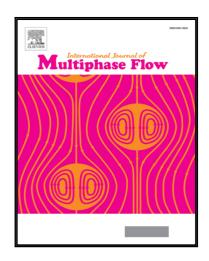
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Highlights

- 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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