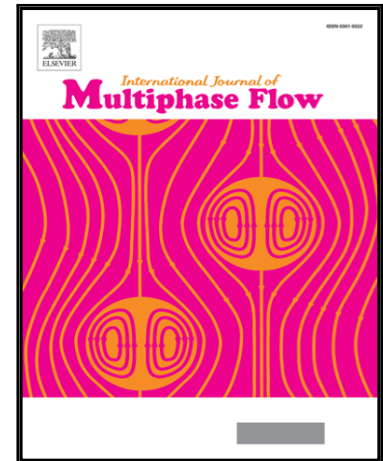


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A comparison between numerical predictions and experimental results for core-annular flow with a turbulent annulus

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**HIGHLIGHTS**

- Viscous oil experiments were done in horizontal core-annular flow with a turbulent water annulus.
- Numerical simulations were performed with a  $k-\epsilon$  model at time-dependent, 3D conditions.
- The simulations give a 15% lower pressure drop than the experiments.

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