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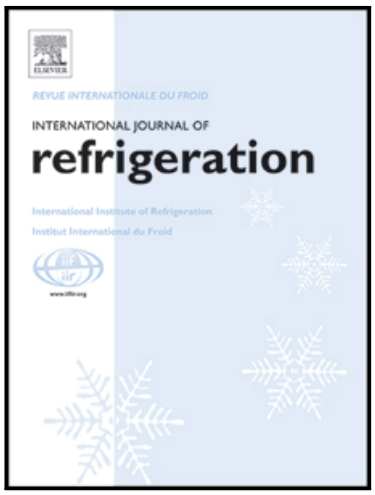

Numerical and analytical investigation of ice slurry isothermal flow through horizontal bends

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Highlights

- Both numerical and analytical models are compared for ice slurry flow in bends
- The k-ε per-phase model provides accurate predictions in solving turbulence of ice slurry
- The secondary flow is improved with increasing flow velocity and decreasing ice fraction
- The phase slip velocity and pressure drop profiles are affected by the secondary flow

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