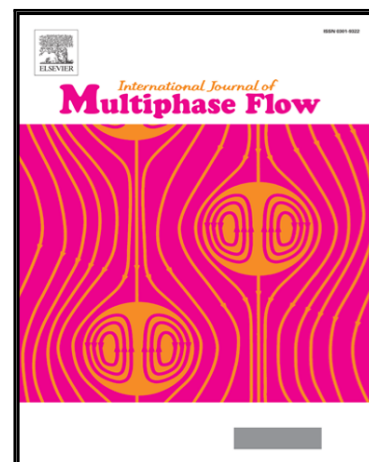


## Accepted Manuscript

### Benchmark of Delayed Equilibrium Model (DEM) and Classic Two-Phase Critical Flow Models against Experimental Data

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**Highlights**

- Separate benchmark for critical flow models according to the thermodynamic conditions (saturated - subcooled) and the geometrical configurations (long tubes- short nozzles - slits).
- Benchmark of the critical pressure, unavailable in literature.
- Validation of the DEM and classic two-phase critical flow models against more than 450 experimental data.
- Calculation of mean error and standard deviation for critical mass flux predictions and critical pressure evaluations.

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