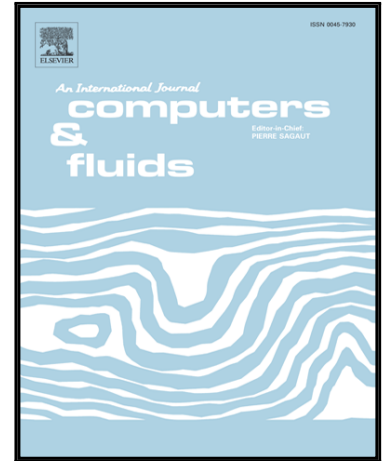


## Accepted Manuscript

Simulation of two-phase flow through ducts with discontinuous cross-section

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**Highlights**

- AUSM+-up scheme developed for flow in ducts of variable cross-sectional area
- Scheme is verified against problems with analytical solutions for ideal gases
- Methodology is successfully applied to two two-phase transient problems

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