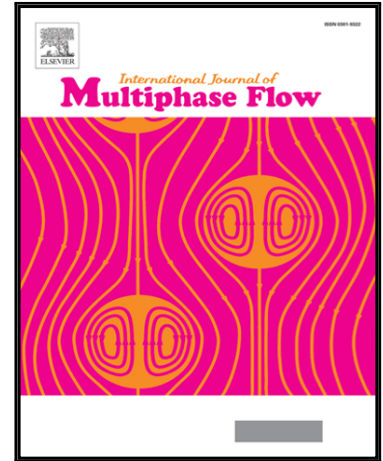


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Axisymmetric Forced Convection Solidification of a Liquid Drop on a Cold Plate

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**Highlight:**

- The solidification process of a liquid drop on a cold plate under axisymmetric forced convection is fully resolved.
- A front-tracking method combined with interpolation techniques is used.
- Effects of various parameters on the formation of the solid phase are investigated.
- Effects of volume change, the growth and contact angles are also presented.

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