

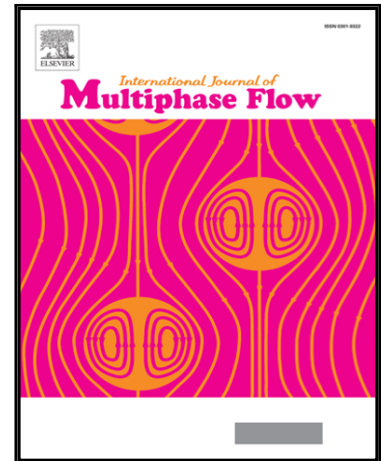
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Experimental Study on Steam Chugging Phenomenon in a Vertical Sparger

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Highlights:

- Experimental study on the mechanisms of every phase of the Chugging cycle in direct contact condensation
- Pressure pulses measured at two positions inside the pipe and synchronized with images from a high speed video camera
- Low pressure condition inside the bubble might be the cause of interfacial instability which generates the bubble collapse
- High pressure peaks characteristics of Chugging are caused by the condensation induced water hammer phenomena inside the pipe
- Creation of a chugging regime map based on collected data

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