

## RESEARCH NOTES

垂直管中管径突变对空气-水两相流流型的影响(II)突扩接头

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**摘要** In this companion paper, flow patterns in the upstream and downstream tubes of a sudden-expansion cross-section (SECS) in a vertical straight pipe were presented. The effect of SECS on flow patterns upstream and downstream was analyzed by comparing with flow patterns in uniform cross-section vertical tubes. It is found the effect is great. There exist great instabilities of two-phase flow in the neighboring areas of the SECS both downstream and upstream.

**关键词** [gas-liquid two-phase flow](#) [flow pattern](#) [sudden-expansion crces-section](#)

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### **The Effect of Sudden Change in Pipe Diameter on Flow Patterns of Air-Water Two-Phase Flow in Vertical Pipe (II) Sudden-Expansion Cross-Section**

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**Abstract** In this companion paper, flow patterns in the upstream and downstream tubes of a sudden-expansion cross-section (SECS) in a vertical straight pipe were presented. The effect of SECS on flow patterns upstream and downstream was analyzed by comparing with flow patterns in uniform cross-section vertical tubes. It is found the effect is great. There exist great instabilities of two-phase flow in the neighboring areas of the SECS both downstream and upstream.

**Key words** [gas-liquid two-phase flow](#); [flow pattern](#); [sudden-expansion crces-section](#)

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