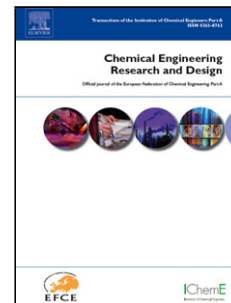


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Author: Xiaoping Guan Yongxiang Gao Zhen Tian Lijun  
Wang Youwei Cheng Xi Li



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**Highlights**

The overall gas holdup increases in the bubble column with pin-fin tubes in comparison with plain-tube internals.

The measured data indicates pin-fins on the tubes reduce the distributor region in the column

Severe gas short-circuiting was observed for the non-uniform arrangement of pin-fin tube internals.

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