

RESEARCH PAPERS

筛板由泡沫态到喷射态工况转变点的测定和模拟

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摘要 The transition from froth to spray regime on sieve trays was experimentally studied in an air/water simulator with 300mm diameter. It has been found that the regime transition occurs as the clear liquid height is equal to the residual pressure drop on the trays. A convenient and accurate technique was proposed for determination of the regime transition point. Based on analysis of the transition process at a sieve hole, a new formula which can be used to correlate the experimental results was provided.

关键词 [sieve tray](#) [froth to spray regime transition](#) [pressure drop](#) [clear liquid height](#)

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Identification and Modeling of Froth to Spray Transition on Sieve Trays

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Abstract The transition from froth to spray regime on sieve trays was experimentally studied in an air/water simulator with 300mm diameter. It has been found that the regime transition occurs as the clear liquid height is equal to the residual pressure drop on the trays. A convenient and accurate technique was proposed for determination of the regime transition point. Based on analysis of the transition process at a sieve hole, a new formula which can be used to correlate the experimental results was provided.

Key words [sieve tray](#); [froth to spray regime transition](#); [pressure drop](#); [clear liquid height](#)

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