RESEARCH NOTES

筛板塔气-液-液系统内相含率和传质特性研究

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摘要 The gas and dispersed phase holdups and mass transfer coefficients of liquid-iquid were

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关键词 Gas-liquid-liquid systems screen plate holdup

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Study on the Holdup and Mass Transfer Performances for Gas-Liquid-Liquid System in a Screen Plate Column

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Abstract The gas and dispersed phase holdups and mass transfer coefficients of liquid-iquid were determined for gas-liquid-liquid three phase system in a screen plate column. The flow pattern of gas-liquid-liquid three phase system was studied under different gas velocities. The shape factors showed the geometric properties of screen plates and the corrected drop characteristic velocities were introduced. The phase holdup in two phases was correlated. The research results indicated that mass transfer coefficient for liquid-liquid system in a column with screen plates and gas agitation was found to increase apparently.

Key words Gas-liquid-liquid systems; screen plate; holdup

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