

TRANSPORT PHENOMENA & FLUID MECHANICS

喷射状态下大孔径复合筛板塔中的液滴分布

方云进, 何良明

UNILABResearchCenterofChemicalReaction-Engineering: E' -stChinaUniversityofScienceandTechnology, Shanghai200237, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 The droplet size distribution with large-holed compound sieve tray operating in the spray regime is measured by using a double electrical probes technique in a cold model column of 400 mm diameter. The results indicate that the hole F-factor Fo and surface tension are the main factors which influence the liquid dispersion expressed by the Sauter mean diameter D32. A correlation of D32 on surface tension, viscosity, F-factor, weir height and liquid flow rate is proposed.

关键词 [飞溅层](#), [筛板](#), [多相流体](#), [化工设备](#), [测量方法](#), [探测器](#)

分类号

DOI:

Droplet Size Distribution on the Large-holed Compound Sieve Tray in the Spray Regime

FANG Yunjin, HE Liangming

UNILABResearchCenterofChemicalReaction-Engineering: E' -stChinaUniversityofScienceandTechnology, Shanghai200237, China

Received Revised Online Accepted

Abstract The droplet size distribution with large-holed compound sieve tray operating in the spray regime is measured by using a double electrical probes technique in a cold model column of 400 mm diameter. The results indicate that the hole F-factor Fo and surface tension are the main factors which influence the liquid dispersion expressed by the Sauter mean diameter D32. A correlation of D32 on surface tension, viscosity, F-factor, weir height and liquid flow rate is proposed.

Key words [double electrical probe](#); [droplet size distribution](#); [large-holed compound sieve tray](#); [spray regime](#).

通讯作者:

方云进 yj.fang@163.com

作者个人主页: [方云进](#); [何良明](#)

扩展功能
本文信息
▶ Supporting info
▶ PDF(1361KB)
▶ HTML全文(0KB)
▶ 参考文献
服务与反馈
▶ 把本文推荐给朋友
▶ 加入我的书架
▶ 加入引用管理器
▶ 引用本文
▶ Email Alert
▶ 文章反馈
▶ 浏览反馈信息
相关信息
▶ 本刊中 包含“飞溅层” 的相关文章
▶ 本文作者相关文章
· 方云进
· 何良明