

RESEARCH NOTES

吸收过程的界面传质机理

马友光, 冯惠生, 徐世昌, 余国琮

Chemical Engineering Research Center, Tianjin University, Tianjin 300072, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 Based on the method of molecular thermodynamics, the mass transfer mechanism at gas-liquid interface is studied theoretically, and a new mathematical model is proposed. Using laser holographic interference technique, the hydrodynamics and mass transfer characteristics of CO₂ absorption are measured. It is shown that the calculated results are in good agreement with the experimental data.

关键词 [laser holographic interference](#) [mass transfer](#) [gas-liquid interface](#) [absorption](#)

分类号

DOI:

The Mechanism of Interfacial Mass Transfer in Gas Absorption Process

MA Ybuguang, FENG Huisheng, XU Shichang, YU Guocong

Chemical Engineering Research Center, Tianjin University, Tianjin 300072, China

Received Revised Online Accepted

Abstract Based on the method of molecular thermodynamics, the mass transfer mechanism at gas-liquid interface is studied theoretically, and a new mathematical model is proposed. Using laser holographic interference technique, the hydrodynamics and mass transfer characteristics of CO₂ absorption are measured. It is shown that the calculated results are in good agreement with the experimental data.

Key words [laser holographic interference](#); [mass transfer](#); [gas-liquid interface](#); [absorption](#)

通讯作者:

马友光

作者个人主页: [马友光](#); [冯惠生](#); [徐世昌](#); [余国琮](#)

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF](#)(1156KB)

▶ [\[HTML全文\]](#)(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“laser holographic interference”的 相关文章](#)

▶ 本文作者相关文章

· [马友光](#)

· [冯惠生](#)

· [徐世昌](#)

· [余国琮](#)