

化学

吹气法直接确定折流板脉冲萃取柱液泛特征

景山, 吴秋林

清华大学 核能与新能源技术研究院, 北京102201

收稿日期 2007-3-10 修回日期 2007-6-28 网络版发布日期: 2008-8-20

摘要 当脉冲萃取柱处于液泛操作状态时, 理论分析表明, 吹气法所测量的柱重时均压降信号随时间延长而增大, 这一结果在以30%TBP/煤油溶液和 $1 \text{ mol}\cdot\text{L}^{-1} \text{ HNO}_3$ 溶液为体系的50 mm折流板脉冲萃取柱中得到了验证。在此基础上, 给出了工业上应用吹气法直接确定液泛特征的实验步骤。

关键词 [折流板脉冲萃取柱](#); [液泛](#); [时均压降](#); [吹气法](#)

分类号 [TQ028.3](#)

Direct Determination of Flooding in Discs and Doughnuts Pulsed Extraction Column by Air-Purge Method

JING Shan, WU Qiu-lin

Institute of Nuclear and New Energy Technology, Tsinghua University, Beijing 102201, China

Abstract Theoretical result indicates that the time-averaged pressure drop of column weight, measured by air-purge method, increases with time at flooding point of pulsed extraction column, and it is experimentally proved in 50 mm discs and doughnuts pulsed extraction column for the 30%TBP/kerosene- $1 \text{ mol}\cdot\text{L}^{-1} \text{ HNO}_3$ system. Based on above results, the method is given when the direct determination of flooding for the extraction column by air-purge method is used in industry.

Key words [discs](#) [and](#) [doughnuts](#) [pulsed](#) [extraction](#) [column](#) [_](#) [flooding](#) [_](#) [time-averaged](#) [pressure](#) [drop](#) [_](#) [air-purge](#) [method](#)

DOI

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(1698KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“折流板脉冲萃取柱; 液泛; 时均压降; 吹气法”的相关文章](#)
- ▶ 本文作者相关文章

- [景山](#)
- [吴秋林](#)

通讯作者