

某气体收料仿真与实验研究

摘要

在铀浓缩工程，容器收料是生产的关键环节，制约着生产效率。本研究从实际生产需求出发，采用 VOF、LEE 模型，建立了一套能够精准分析收料容器内部物料相变过程的数值仿真模型，并用真实物料进行了验证，为后续容器设计优化和制冷设备设计优化提供了基础。

关键词

铀浓缩；容器；相变；仿真；

Abstract

In the field of uranium enrichment engineering, material collection in vessels is a critical production link that restricts production efficiency. Based on actual production requirements, this study adopts the VOF and Lee models to establish a numerical simulation model capable of accurately analyzing the material phase transition process inside the receiving vessel. The material collection process is simulated and verified with real materials, which provides a foundation for the subsequent design and optimization of vessels and refrigeration equipment.

Keywords

Uranium enrichment；vessel；phase change；simulation

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