研究报告

离心机分离功率的影响因素

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目前,稳定同位素的大量需求和广泛应用极大地推动了离心分离技术的快速发展。本文通过价值函数 和分离功率的统一表达式,推导出用全分离系数、供料量、分流比和供料丰度表示的分离功率的表达式。在推 导的过程中,对全分离系数、供料量、分流比和供料丰度各个因素没有任何的限制条件,其适用的范围更广 泛。同时,应用分离功率的一般表达式,分析了各个因素对分离功率的影响。

关键词 全分离系数 分离功率 分流比 丰度

分类号

RESEARCH ON INFLUENCE OF THE SEPARATION POWER F OR CENTRIFUGE

Abstract At present, the large demand and wide use of stable isotopes are greatly stimulating de ▶本文作者相关文章 velopment on separation technologies with gas centrifuge. Adopting the unified expressions of the value function and the separation power, this paper derived the unified expression of the separatio n power that is described with the overall separation factor, the feed, the cut and the concentratio n of the feed. No restrictions were placed onto the parameters above in the derivation, thus this e xpression is more widely applicable. In the case of variation of the overall separation factor and th e cut, the effect of the various factors on the separation power is analyzed.

Key words overall separation factor Separation coefficient cut concentration

DOI

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