中国化学工程学报 2003 11 (1): 110-114 ISSN: 1004-616x CN: 44-1063/R

RESEARCH NOTES

Mo-Bi系丙烯氨氧化催化剂上氨分解反应动力学的Monte Carlo模拟

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 Monte Carlo method is applied to investigate the kinetics of ammonia oxidative decomposition overthe commercial propylene ammoxidation catalyst(Mo-Bi). The simulation is quite in agreement with experimentalresults. Monte Carlo simulation proves that the process of ammonia oxidation decomposition is a two-step reaction.

关键词 Monte Carlo simulation propylene ammoxidation ammonia oxidative decomposition reaction kinetics

分类号

Monte Carlo Simulation of Kinetics of Ammonia Oxidative Decomposition over the Commercial Propylene Ammoxidation Catalyst (Mo-Bi)

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Abstract

Monte Carlo method is applied to investigate the kinetics of ammonia oxidative decomposition overthe commercial propylene ammoxidation catalyst(Mo-Bi). The simulation is quite in agreement with experimentalresults. Monte Carlo simulation proves that the process of ammonia oxidation decomposition is a two-step reaction.

Key words Monte Carlo simulation propylene ammoxidation ammonia oxidative decomposition reaction kinetics

DOI:

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