催化、动力学与反应器

## Pt/CeO<sub>2</sub>-ZrO<sub>2</sub>催化剂上的CO变换反应本征动力学

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摘要

关键词 变换反应 铂/铈锆氧化物 本征动力学

分类号

# INTRINSIC KINETICS OF WATER GAS SHIFT REACTION OVER Pt/CeO<sub>2</sub>-ZrO<sub>2</sub>

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#### Abstract

The intrinsic kinetics of water gas shift reaction over Pt/CeO<sub>2</sub>-ZrO<sub>2</sub> was investigated. Experiments were carried out by means of orthogonal design. Parameters of power-type rate model of water gas shift reaction were determined by the non-linear least-square parameter estimation method. The kinetics of water gas shift reaction over Pt/CeO<sub>2</sub>-ZrO<sub>2</sub> was different from that of common commercial catalysts. The accuracy of experimental data and kinetics model was proved by F-examination.

**Key words** water gas shift reaction Pt/CeO<sub>2</sub>-ZrO<sub>2</sub> catalyst intrinsic kinetics

DOI:

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