

传递现象

## 团聚模型在连续体系中的应用

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摘要

关键词

[团聚模型](#) [微观混合](#) [连续体系](#)

分类号

## Application of incorporation model in continuous system

HU Hui, CHEN Zhiming

### Abstract

The micro-mixing time in a continuous system is studied with the incorporation model, in which the direct and indirect solutions are compared and the assumptions and parameters are modified to suit for the continuous system. Results showed that the direct solution is more close to the real mixing state, which is strongly affected by the change of the concentrations in the surroundings caused by the ratio of the continuous flows. While, the real concentrations in the aggregate have significant effect on both the solutions, even more than ten times, especially  $c_{H^+}$  in the aggregate. By fitting, the relationships of  $X_s$  and  $t_m$  resulted from both solutions are similar,  $\lg X_s$  is linear to  $\lg t_m$  when  $t_m < 0.01$  s, and is quadratic when  $t_m$  is larger.

### Key words

[incorporation model](#) [micro-mixing](#) [continuous system](#)

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