

## عنوان مقاله:

Modeling of Zeolite A crystallization based on reaction engineering concepts

## محل انتشار:

دومین کنفرانس ملی ژئولیت ایران (سال: 1394)

تعداد صفحات اصل مقاله: 2

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## خلاصه مقاله:

Zeolite A is a crystalline aluminosilicate that synthesized hydrothermally. Several reaction engineering models developed for precipitation of this zeolite. Three reaction engineering models were presented by Thompson based on gel consumption and conversion to zeolite. This paper simulated batch reaction engineering of zeolite A utilizing Thompson's second and third models. The results of these models were compared to each other and satisfied with Kerr's laboratory data. Modelling results showed the gradient of gel conversion was decreased during nucleation stage but it was approximately constant during crystallization. Also Thomson's second model showed a better fitness with experimental data rather than Thompson's third model.

## کلمات کلیدی:

Zeolite A, Modeling, Reaction Engineering, Crystallization

## لینک ثابت مقاله در پایگاه سیویلیکا:

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