

## عنوان مقاله:

Mathematical modeling and simulation of naphtha catalytic reactors

## محل انتشار:

شانزدهمین کنگره ملی مهندسی شیمی ایران (سال: 1397)

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## خلاصه مقاله:

In this work, the behavior of catalytic naphtha reforming reactors has been predicted. It is proposed to use the one-dimensional and homogeneous mathematical model for simulation of the naphtha reformers. The results have been compared with the industrial data. There is a good agreement between the simulation results and industrial data. The changes of main component including paraffins, naphthenes, aromatics and hydrogen, as well as the temperature profile along the length of reactors have been presented. Finally, the effects of parameters such as the inlet temperature and the inlet molar flow rate of naphtha feed on the production yield of aromatics have been studied.

## کلمات کلیدی:

.naphtha reforming process, simulation, aromatics, hydrogen to hydrocarbon molar ratio, fixed bed reactor

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/860083>

