سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
CIVILICA.com

عنوان مقاله:

THE EFFECT OF OPERATING CONDITIONS ON THE SELECTIVITY PRODUCTS IN THE FISCHER-TROPSCH REACTION

محل انتشار:

مجله تحقیقات کاربردی, دوره 2, شماره 4 (سال: 1395)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Jaber Yayebi - *Department of Chemical Engineering, Faculty of Engineering, University of Sistan and Baluchestan, Zahedan, Iran*

Hossein Atashi - *Department of Chemical Engineering, Faculty of Engineering, University of Sistan and Baluchestan, Zahedan, Iran*

Farshad Farshchi Tabrizi - *Faculties of Chemical Engineering-Oil & Gas, University of Shiraz, Shiraz, Iran*

Jaber Gholizadeh - *Department of Chemical Engineering, Faculty of Engineering, University of Sistan and Baluchestan, Zahedan, Iran*

خلاصه مقاله:

Fischer-Tropsch synthesis is an important method for producing lightolefins. Ethylene and propylene are both the valuable key raw materials invarious industries which are produced in Fischer-Tropsch synthesis. Theinfluence of operating pressure and temperature have been studied on liquidhydrocarbon product distribution by CO-Ni-ZrO2 catalyst. The optimizationof the reaction conditions for the production of ethylene and propylene wasinvestigated. Data analysis indicated the highest selectivity for ethylene andpropylene at a pressure of 31 atm and a temperature of 529°K. The effect ofoperating conditions on the average carbon number distribution, dispersion,and skewness were also studied. Results indicated that the maximumaverage number of carbonwas obtained in a pressureof 1 atm and .atemperature of 523°K. Deviation of the distribution also illustrated thedistribution of well-focused

کلمات کلیدی:

Fischer-Tropsch synthesis, optimization, ethylene, propylene, skewness

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/541418