

## عنوان مقاله:

Prediction of Local Static Hold-up for Butyl acetate-water System in a Rotating Sieved Disc Contactor

## محل انتشار:

چهاردهمین کنگره ملی مهندسی شیمی ایران (سال: 1391)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

An experimental work is carried out on a rotating sieved disc contactor with inner diameter of 91 mm and 21 compartments for predicting local static holdup. The used systems are butyl-acetate as dispersed phase and water as continuous phase which pass through column in countercurrent way. One dimensionless correlation has been proposed for local static holdup as function of mother drop size, physical properties of two phases, number of stages and rotor speed. The values have been measured for four rotor speeds too. Moreover, the absolute average relative error and the standard deviation between predicted and experimental data are 9.23% and 6.15%, respectively

## کلمات کلیدی:

local static hold-up, mother drop size, total hold-up

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/171749>

