

### عنوان مقاله:

CFD simulation of PVC Fluidized Bed Dryer Hydrodynamic

## محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

تعداد صفحات اصل مقاله: 3

### نویسندگان:

Hassanvand - Computational Fluid Dynamic Research Laboratory, Department of Chemical Engineering, Iran
University of Science & Technology

Hashemabadi - Computational Fluid Dynamic Research Laboratory, Department of Chemical Engineering, Iran
University of Science & Technology

#### خلاصه مقاله:

In present study, CFD based simulation of industrial large scale PVC fluidized bed dryer of Bandar Imam Petrochemical Complex (BIPC) has been performed. The CFD model is based on Eulerian-Eulerian formulation. The governing equations were discritized by using finite volume method. The effects of parameters such as air inlet velocity, air distributor design; fluidized bed geometry and particle size distribution of PVC on fluidized bed dryer hydrodynamic was investigated. Afterward the air inlet velocity and air distributor design was optimized. The simulation results show that for better performance of operation and reduction of off grade PVC, the design of .fluidized bed dryer must be improved

# كلمات كليدى:

Fluidized bed dryer, CFD Simulation, Eulerian-Eulerian, PVC

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/46045

