

عنوان مقاله:

Experimental Study of Behavior of Solids in a Gas-Solid Fluidized Bed

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Local flow structure of a fluidized bed was studied. For this purpose, particles velocity and concentration were measured in a 152 mm ID bed. To measure these parameters, fiber optic probe with minimum interference in flow was used. This probe was consisted of 4 emitting and 3 receiving fibers arranged in an alternating array. To calculate velocity and concentration of particles, corresponding calibrations for each one was implemented. Radial changes in particle velocity showed that the direction of particles movement is mostly downward near the wall and upward at the centre. In addition, particles aggregation near the wall is more than the centre

کلمات کلیدی:

particle velocity, particle concentration, fiber optic probe, calibration

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/341082>

