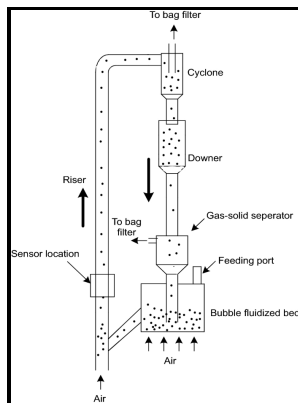


# Solids mixing and segregation in a gas spout-fluid bed - effect of the distributor design.

Aston University. Department of Chemical Engineering and Applied Chemistry - Evaluation of Mixing and Mixing Rate in a Multiple Spouted Bed by Image Processing Technique



Description: -

- Solids mixing and segregation in a gas spout-fluid bed - effect of the distributor design.

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Tags: #Hydrodynamics #and #solids #mixing #behaviour #of #fluidized #beds #with #inclined

## British Library EThOS: Solids mixing in spouted beds

It is thus recommended to design a column of few ports to investigate solids mixing and effects of orifice angle especially for shallow beds.

## US5913588A

It was found that high temperature promoted spouting stability leading to earlier appearance of pulsatory spouting, the jet-in-fluidized-bed regime, and slugging than for room temperature operation.

## Hydrodynamics and solids mixing behaviour of fluidized beds with inclined

Materials used in the present study are dolomite and glass beads with different B. Spout-fluid beds show better solid mixing, better annular solid-gas contact Yang, 1983 and more uniform temperature Lim et al, 1984; Lim et al, 1988. Powder Technology 2017, 314 , 455-465.

## Mixing and Segregation Behavior in a Spout

To provide sufficient supporting surface for the baffles 6 and to guide the rods 12 relative to the walls of the vessel 1, support rings 14 are provided adjacent each baffle 6. At a low flue gas oxygen level as shown in Fig.

## Mixing and segregation in fluidized bed thermochemical conversion of biomass

Figure 4-11 Bed expansion difference between outer and inner walls for bed height of 40 mm Figures 4-12 and 4-13 show the bed expansion at the outer and inner walls for static bed height of 120 mm for the three distributors. The RTD data are used to test the validity of these models.

## Experimental Study of Transient Hydrodynamics in a Spouted Bed of Polydisperse Particles

The vent 34 could be convected to heat exchange devices to extract heat therefrom for other uses. Apparatus Data The tapered column was made of Perspex sheets to allow visual observation.

### **Hydrodynamics and solids mixing behaviour of fluidized beds with inclined**

Most oxygen was consumed below the bed surface. Only one transducer was used to measure the overall pressure drop.

### **A Discrete Particle Simulation Study of Solids Mixing in a Pressurized Fluidized Bed**

The Mechanics of Fluidized Beds. There is the circulating fluidized bed reactor in which solids mixing is improved by circulating the solids back to the bottom of the reactor after passing through a riser.

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