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

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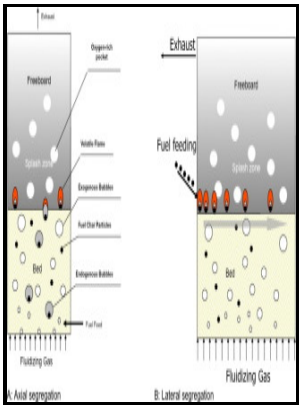

Description: -
-Solids mixing and segregation in a gas spout-fluid bed - effect of the distributor design.
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Investigation of mixing/segregation of mixture particles in gas

Therefore, to improve the catalyst performance, a low gas velocity in the region for adsorption increasing the catalyst residence time could be used Yang, 2009. Another distinct aspect of the design of this conical chamber 11 is the division of the chamber into a lower section 19 and an upper section 29.

Mixing and Segregation Behavior in a Spout

Then, once the column was operated with particulate materials, the transducer measured the total pressure drop.

Evaluation of Mixing and Mixing Rate in a Multiple Spouted Bed by Image Processing Technique

The spouting and fluidizing gas flow rate were adjusted to cover a range of flow regimes, typically including internal jet IJ , jet in fluidized bed with bubbling JFB , spouting S and spout-fluid SF. When looking at the drilled holes from a top view, it was clear that the inclined drilled holes had higher cross-sectional area at top and bottom, leading to lower pressure drop. Large particles were selected for study because they are becoming increasingly important in industrial fluidised beds but have not been thoroughly investigated.

Mixing and Segregation Behavior in a Spout

The gas flow can then be divided into two components, a vertical component, that is responsible for supporting the particles 2 weight-minus-buoyancy, and a horizontal component that induces swirling motion Sreenivasan et al. SUMMARY OF INVENTION There exists a need to develop a process to dry organic waste slurry or other type of industrial waste slurry and which is much more efficient than the prior art and which can destroy generated VOCs and odor gases at higher levels than previously achieved by the above referred-to drying processes and wherein the treatment capacity can be increased and further wherein the effluent gas is incinerated in a combustion chamber which also provides the hot air for the drying chamber. I would like also to thank my colleagues in Chemical and Biological Engineering for their support and encouragement.

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