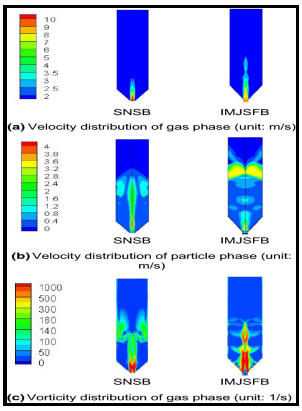
Behaviour of segregating fluidised solids in throughflow

University of Birmingham - Segregation of liquid—fluidized solids



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Segregation of liquid

Dave Article , Cedric Briens, Carole E. Buechler, John Blackson, Charles J. Weimer Article , Yoshihide Mawatari, Yuji Tatemoto, Katsuji Noda, Masato Yamamura, and Hiroyuki Kage Article , Kyla Clarke, Gordon A.

The Kinetics of Segregation in Fluidised Beds

Muhle Article , Xiaotao T.

Segregation of liquid

Seville Article , Luca Mazzei and Paola Lettieri Article , Olumuyiwa Owoyemi and Paola Lettieri Article , Yurong He, Thang Ngoc Cong, Yulong Ding, and Huilin Lu Article , Clay R. The local individual phase area fraction fluctuations of all the three phases were measured using the high-speed imaging.

Segregation of liquid—fluidized solids

Seng Lim Article , Fang Yang, David K.

The 12th International Conference on Fluidization

This was achieved by removing the material layer by layer, separating magnetically and analysing the mass ratio of the contents. A novel method based upon digital image analysis has been developed to automate the measurement of bubble properties in gas-fluidized beds.

The flow of fluidised solids

However, at sufficiently high gas flow-rates, uniform mixing can take place across the entire width of the bed. With this expression the non-equilibrium behaviour of a binary particle mixture has been analysed. In order to determine the slip force acting upon each component, an expression for the mobility of a component in a mixture of components is necessary; such an expression still is missing.

The flow of fluidised solids

The bubbling characteristics were controlled using two different modes of air injection: uniform distributor and two-jet distributor under the same superficial gas velocity U G. Results are compared with theoretical predictions using a population balance model The study shows that the model in which coalescence is considered as the dominant growth mechanism may not be adequate. Jovanovic Article , Umberto Arena and Maria Laura Mastellone Article , Jose Quevedo, Daniel Lepek, Robert Pfeffer, and Rajesh N.

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