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This work is a study of the interaction between the fluidized bed dynamics and the pressure and flow pulsations from the air supply system. The research has been identified as a key process to understand in order to correctly formulate exit boundary conditions in numerical modeling of fluidized beds, operated under industrial conditions. The interaction between pressure waves, resulting from activities in the bed, with pressure and flow pulsations from the air supply system is a main mechanism that gives rise to formation of a coupled system of fluidized bed, air pinches, pipe, flow control devices and fan. A general model of the response of the fluidized bed to disturbances has been formulated, and the information with regard to the dynamics of the bed and the bed plus the entire air supply system, has been investigated. Different modes of bubble flow have been studied in the time-frequency plane (sawtooth envelope), allowing the dependence of pressure in the air supply system of the air supply system has been coupled with three-dimensional numerical simulations of the flow field in the bed and the air pinches.



Diego Butler

Diego Butler
In a series, background and area of interest concern fluid dynamics of multiphase flow (gas-liquid flow) applied to fluidization and pneumatic conveying and fluidized flow. Technical transport of solid particles through pipelines and numerical modeling (CFD) of multiphase flows.

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