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HYDRODYNAMICS OF A GAS-LIQUID COLUMN EQUIPPED WITH MELLAPAKPLUS PACKING E. Brunazzi*, A. Paglianti*, L. Spiegel**, F. Tolaini* *Laboratory of Process Equipment, Department of Chemical Engineering,

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Hydrodynamics of gas-liquid Taylor flow in rectangular microchannels ... gas-liquid interface at the bubble tip between the entrance and the exit of the observation window, averaging the data of 20-100 bubbles. 2.4 Fluid properties and operating conditions

Hydrodynamics of gas-liquid Taylor flow in rectangular

PDF | This paper describes the results of an experimental and modelling study on hydrodynamics of MellapakPlus packing operated under counter-current gas-liquid flow.

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The experimental data (the velocity of bubbles, the volume fraction of the gas, the relative length of bubbles, and the pressure drop) are compared with the results of calculation by the previously constructed mathematical model of the slug flow of a gas-liquid mixture in capillaries.

Hydrodynamics of gas-liquid slug flow in capillaries

The hydrodynamic behavior of gas-liquid-solid fluidized bed is a complex subject and one of the most important for basic understanding of certain refinery and petrochemical industrial applications[3]. Gas-liquid fluidization is defined as an operation in

Study of Hydrodynamics of Gas-Liquid Fluidized Beds

between the gas and liquid phases. In bubbly flow reactors, the mass transfer is most important parameter, which affects the product conversion and reactor performance. Mass transfer can be enhanced by achieving more efficient mixing. One such method is the application of rotation or swirl to the gas liquid mixture.

A CFD STUDY OF SWIRL EFFECT ON HYDRODYNAMICS IN A GAS

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a large influence on the resulting hydrodynamics and gas-liquid mass transfer and are studied in the

co-current flow configurations (upflow and downflow) for gas-liquid flow (Chapter 5).

Gas-liquid solid foam reactors : hydrodynamics and mass

Abstract: Hydrodynamics and mass transfer of gas-liquid flow are explored under ambient conditions in an Advanced-Flow Reactor (AFR), an emerging commercial system designed for continuous manufacture. Carbon dioxide/water is the model system used in this study for ...

Hydrodynamics of Liquid-Liquid Dispersion in an Advanced

166 HYDRODYNAMICS §9-1, or lines. The volume of liquid Q passing through area A_1 in unit time is $Q = A_1 V_1$, (9-1) where V_1 is the velocity of the liquid at this point. Similarly, the volume of liquid passing through A_2 in unit time is $Q = A_2 V_2$. Since these two quantities must be equal for steady flow, we have

Physics, Chapter 9: Hydrodynamics (Fluids in Motion)

Hydrodynamic and mass transfer characteristics such as liquid velocity, gas holdup and gas-liquid volumetric mass transfer coefficient in the riser and downcomer of the gas-liquid-solid three-phase internal loop airlift reactors with nanometer solid particles were investigated.

Hydrodynamic and Mass Transfer of Gas-Liquid-Solid Three

At the flooding point, the liquid is unable to flow down the packing due to the high gas flow and collects at the top of the column and gas is entrained with the liquid into the main liquid supply tank.

Hydrodynamics of gas-liquid counter-current flow in solid

hydrodynamic characteristics of gas-liquid-liquid systems The hydrodynamics of a system represents one of the main difficulties in the scale-up of liquid-liquid extractors.

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