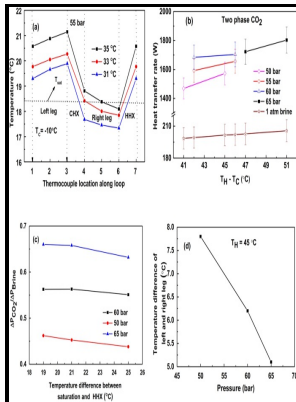


Mass transfer in two-phase co-current gas-liquid flow.

University of Salford - Two



Description: -

-Mass transfer in two-phase co-current gas-liquid flow.

- D25555/79 Mass transfer in two-phase co-current gas-liquid flow.

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. The present study introduces a methodology for the estimation of mass transfer rates in gas-liquid flow via the Chilton-Colburn analogy and near-wall eddy diffusivity distribution based on the mechanistic gas-liquid flow modeling. Two important transport parameters, e.

Flow Pattern, Pressure Drop, and Mass Transfer in a Gas-Liquid Concurrent Two

They include, where the liquid is continuous, and there is a dispersion of bubbles within the liquid; or where the bubbles have coalesced to make larger bubbles which approach the diameter of the tube; where the slug flow bubbles have broken down to give oscillating churn regime; where the liquid flows on the wall of the tube as a film with some liquid entrained in the core and the gas flows in the centre; and where, as the liquid flow rate is increased, the concentration of drops in the gas core increases, leading to the formation of large lumps or streaks wisps of liquid. Pipe inclination is an important parameter in determining flow regimes, and flows in inclined pipes and in other geometries are discussed by 1982.

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