Institute of Chemical Engineering

Determination of all hydrodynamically stable and easily predictable conditions in various bubble columns

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Abstract: The reliable operation of bubble columns depends on the selection of hydrodynamically stable conditions. They have been defined based on the fully predictable behavior of an identification parameter in a certain gas velocity range. In order to define these stable conditions, three key parameters (Kolmogorov entropy, new hybrid index and information entropy) have been extracted from various intrusive and non-intrusive measurements in water, ethanol, therminol LT and benzonitrile.

Attachments:

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