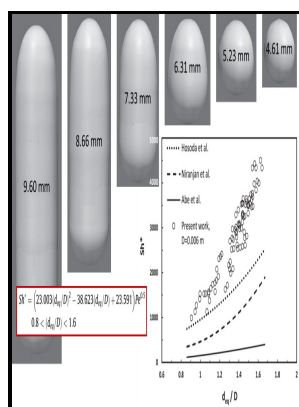


Mass transfer in bubbles.

Massachusetts Institute of Technology Library - Interactions between gas



Description: -

-Mass transfer in bubbles.

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Notes: Thesis (M.Sc) - Massachusetts Institute of Technology, 1947.

This edition was published in 1955



Filesize: 21.310 MB

Tags: #Mass #transfer #dynamics #in #the #dissolution #of #Taylor #bubbles

Avoiding bubble troubles: Investigating the relationship between bubbles and electrochemistry

Terminal velocity versus glycerin concentration. The black lines are the theoretical far-field streamlines according to Eq.

Interactions between gas

In this paper, a computational fluid dynamics CFD model is developed to describe the hydrodynamics, and mass transfer, of bubble columns operating in either of the two flow regimes.

Phys. Rev. Fluids 5, 063605 (2020)

Ultrasound is known to enhance surface bubble growth and removal in catalytic and microfluidic applications, yet the contributions of rectified diffusion and microstreaming phenomena toward mass transfer remain unclear. Studies on ventilation of culture broths.

Mass Transfer from Individual Gas Bubbles

Unfortunately, the existing models in the literature suffer from at least one of the following three major limitations. Gas—liquid mass transfer to single bubbles: Effect of surface contamination. It ensures the circulation of water, the bubbles of gas ensuring the pumping of the liquid and the gas exchange at the interface between the bubbles and the water make it possible to deplete the liquid in CO₂.

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