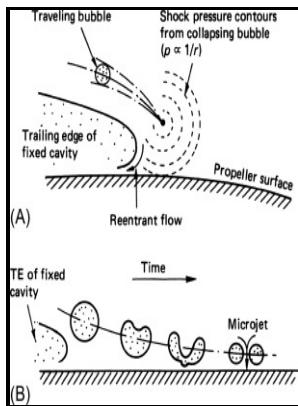


Hydrodynamics of jet impact in a collapsing bubble

University of Birmingham - 3D Jet Impact and Toroidal Bubbles



Description: -

- Hydrodynamics of jet impact in a collapsing bubble
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Notes: Thesis (Ph.D.) - University of Birmingham, School of Mathematics and Statistics, 2003.

This edition was published in 2002



Filesize: 23.41 MB

Tags: #The #Art, #Craft #and #Science #of #Modelling #Jet #Impact #in #a #Collapsing #Cavitation #Bubble

Influence of the Impact Velocity and Size of the Film Formed on Bubble Coalescence Time at Water Surface

The Canadian Journal of Chemical Engineering 2015, 93 10 , 1838-1848. Numerical study on the bubble dynamics in a broken confined domain. Annual Review of Fluid Mechanics, 1987, 19 1 :99—123.

Numerical study on the bubble dynamics in a broken confined domain

The inset shows the jet radius. Universal mechanism for air entrainment during liquid impact. Sequential X-ray images of evolution of the entrapped bubble for the heptane.

Jets in bubbles

Advances in Colloid and Interface Science 2016, 235 , 214-232. Journal of Computational Physics, 2015, 294: 208—223.

The jet impact force of laser

Colloids and Surfaces A: Physicochemical and Engineering Aspects 2014, 441 , 788-795. The retraction dynamics of a thin fluid sheet is governed by the competition among inertia, capillarity, and viscosity ,.

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Additionally, hydrodynamic instability may induce one-sided coalescence of the daughter droplet, eventually forming one bubble, as illustrated in Fig.

Numerical study on the bubble dynamics in a broken confined domain

This can be explained by the decrease in the bubble size with impact height, as shown in the top panel of Fig.

Numerical study on the bubble dynamics in a broken confined domain

Physics of Fluids 2013, 25 12 , 123101. Experimental Thermal and Fluid Science 2019, 104 , 199-208. Towards a CFD model of bubble columns containing significant surfactant levels.

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Penetration of a bubble through porous membranes with different wettabilities. Partial coalescence of drops at liquid interfaces. Micro-bubble morphologies following drop impacts onto a pool surface.

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