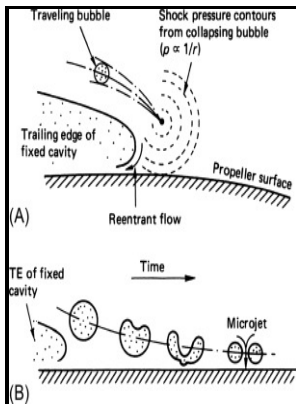


# Hydrodynamics of jet impact in a collapsing bubble

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



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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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