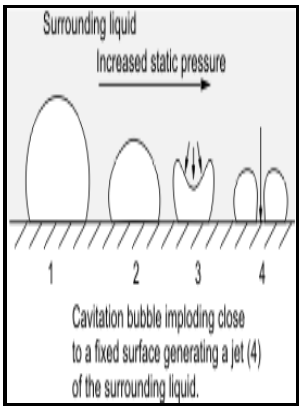
Hydrodynamics of jet impact in a collapsing bubble

University of Birmingham - Air evolution during drop impact on liquid pool



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-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: #Numerical #study #on #the #bubble #dynamics #in #a #broken #confined #domain

Hydrodynamics of Bubble Column Reactors at High Gas Velocity: Experiments and Computational Fluid Dynamics (CFD) Simulations

The antibubble seems to have a similar configuration with a typical antibubble ,, but the generation principle is quite different.

Surface tension effects on the behavior of a cavity growing, collapsing, and rebounding near a rigid wall

Comparison of turbulence models for bubble column reactors. The physical properties of the ternary system ethyl alcohol-glycerin-water. Anisotropic Spreading of Bubbles on Superaerophilic Straight Trajectories beneath a Slide in Water.

Oil Jet with Dispersant: Macro

The broken confined domain is composed of a solid wall and a plate that has a hole.

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

Additionally, it was found that low viscosity and low surface tension induce formation of a small daughter droplet encapsulated by an air shell, resulting in formation of an antibubble. Langmuir 2019, 35 25 , 8294-8307. Chemical Engineering Science 2018, 186 , 88-101.

The counter

The imaging speed of the camera was synchronized to the X-ray beam using delay generators, enabling us to capture images with period of 3.

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We characterize these individual swimmer motions.

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

Chemical Engineering Research and Design 2016, 112 , 88-102. International Journal of Food Engineering 2016, 12 9 , 867-873.

Hydrodynamics of jet impact in a collapsing bubble

Pressure 1—1000 bars and temperature 20—100 °C dependence of the viscosity of liquid hydrocarbons.

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