海洋大气间气泡的气体输运

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Abstract

The gas transfer by small bubbles in waves in the ideal fluid is studied in this paper. The motion equation coupled with the gas transfer result for the homogeneous flow over a spherical bubble is solved. The effects of the gas concentration dissolved in the water, waves, the bubble radius and the initial depth of bubbles on the gas diffusion of a single bubble are discussed. Therelationship between the gas diffusion from a bubble and the gas concentration in water is basicly linear. The wave lenth has no effe...

Key words bubble bubble clouds gas diffusion gas transfer

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