

Mass Transfer Resistance due to Interface Hydrate Film in the Dissolution of Liquid CO₂ Disk in Water

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Dissolution behavior of liquid CO₂ drops in sea water is of importance in the carbon dioxide sequestration. Such studies have been reported on empirical basis on the convective conditions. In this study the basic concept of mass transfer resistance was studied experimentally by comparing the disk size change in quiescent water with and without hydrate films. The solutions were analyzed with the moving boundary solution of the dissolution behavior.