

Phase Equilibrium Measurement of Gas Hydrates Using QCM Method

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Gas hydrates are stable crystalline compounds physically formed by water and gas molecules (methane, CO₂, H₂, etc.) at appropriate pressures and temperatures. It is essential to study about phase equilibrium conditions of hydrate formation and dissociation for application used its physical properties. In this study, we introduced phase equilibrium measurements of gas hydrates using quartz crystal microbalance, and revealed phase equilibrium effects of CO₂ and H₂ hydrate in the presence of various promoters.