

Microscopic analysis of the CO₂ + CH₄ mixed gas hydrate

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Gas hydrates are paid attention for a solution to resolve the greenhouse problem. By sequestering carbon dioxide as a form of gas hydrate, we can reduce huge amount of carbon dioxide in the atmosphere. Also, to make this process more efficient, simultaneous process of CO₂ sequestration and CH₄ exploitation was suggested. With these application basis, microscopic analysis of the carbon dioxide + methane mixed gas hydrate was performed in this work. This kind of microscopic measurements gives much information on gas hydrates and obtained data can be used as a criterion for evaluating the capacity and economy of carbon dioxide sequestration.