

Growth and dissolution mechanism of THF hydrate by laser interferometry

Hitoshi Tomaru [1], Katsuo Tsukamoto [2]

[1] Sci. Tohoku Univ., [2] Faculty of Science, Tohoku University

Growth and nucleation of THF hydrate was investigated by Mach-Zehnder interferometry to analyze the growth rate vs supersaturation at the solid-liquid interface. It was found for the first time that hexagonal hydrate could be formed from 5%wt% THF solution at large supercooling. Because of no data on the growth kinetics of the hexagonal crystals, kinetical analysis was made on these crystals.