

研究室名

錦研究室 学会発表

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学会名	第58回燃焼シンポジウム
演題名	Flame propagation over a methane hydrate surface
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内容	<p>The Methane Hydrate is expected as an energy source and is being studied as a medium-distance natural gas transportation means. During the natural gas transportation, fire accidents concerned. In the present study, the flame propagation over a methane hydrate has been studied numerically, using the ANSYS Fluent 17.2. The high speed flame propagation, which is observed when the hydrate surface temperature is higher than the dissociation temperature experimentally investigated, by assuming that the methane is injected over a hydrate surface before the flame ignition. The one-step overall reaction model is used for methane/air combustion. The mixing process before the flame ignition was calculated reasonably while it was not calculated reasonably after the ignition.</p>