

||||| 特集：燃焼～単純化して探る複雑現象 |||||
(解説)

乱流微粒化研究における微小重力実験の意義

梅村 章

Impacts on Liquid Atomization Theory from Micro-Gravity Experiment

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Abstract

Microgravity experiment may provide breakthrough impacts on the understanding of liquid ligament breakup mechanism in turbulent atomization. In the present paper, how various difficulties and misunderstandings present in the conventional atomization theory can be overcome in the light of new concepts derived from micro-gravity experiment results is described in detail in order to demonstrate a scientific significance of microgravity experiment.