

Review of Reduced Gravity Boiling Heat Transfer: Japanese Research

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Abstract

To introduce the advance in the researches on boiling and two-phase flow in reduced gravity fields and the change in the situation surrounding them in Japan, a short review is focused on the individual research subjects, i.e., pool boiling, flow boiling, and unheated two-phase flow including their major topics. Representative results obtained so far are introduced. Future direction of researches on the present discipline is proposed and the activity to enhance the opportunity to use facilities with longer reduced gravity duration is explained.