THESE thesis reports results of an original investigation carried out independently by the author on the influence of \( \gamma \)-irradiation on the thermal decomposition of some solid substances. Previous work in the field and in related ones are reviewed in the introduction, and wherever mentioned due acknowledgment has been made. A brief account of the important findings is given in the Summary, and their contribution to the advancement in the field is emphasized in the conclusion. The work has not been presented for any degree or distinction of this or any other university.

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