

MODELING OF THE RADIATION AND GAS-DYNAMIC PROCESSES  
UNDER IMPACT ACTION ON A SUBSTANCE

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This report presents the results of researches of the processes accompanying intensive pulse influence on substance performed in laboratory of radiating gas dynamics HMTI.

The data on thermalphysic and optical properties of low-temperature and multi-charge plasma as well as the description of radiation transfer which are used at the study of plasma dynamic problems are considered.

In the report results of modeling of dynamics of an erosive laser torch, high-speed impact, strong explosion and a supersonic flow of a solid in the Earth's atmosphere are described.