

PHOTOTHERMAL TRANSFORMATION
OF ENERGY IN HETEROGENEOUS
COMPOSITE STRUCTURES: THE ANALYSIS
OF PHOTODEFLECTIONAL RESPONSE

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S u m m a r y

The purpose of this work is to consider a mathematical model of photodeflection signal appearance in a composite object, a dielectric matrix with inclusions from a conducting material, under the action of a modulated electromagnetic radiation with the Gauss profile of its intensity. The analysis of characteristics of the photodeflection response of the non-uniform medium allows estimating the physical parameters describing the properties of various non-uniform structures.