

PHOTOTHERMOACOUSTIC EFFECT
IN STRESSED MEDIA

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S u m m a r y

Results of experimental and theoretical investigations of the photothermoacoustic (PTA) effect in solids are presented. Influence of the stressed state of medium on the PTA-transformation process was cleared up. By immediate experiments conducted on model samples, it has been shown that the PTA effect is sensitive to elastic stresses in solids. A model of the PTA effect formation mechanism in a stressed medium is proposed.