

INFLUENCE OF LASER-INDUCED SHOCK
WAVES ON THE DEFECT STRUCTURE
OF $\text{Hg}_{0.8}\text{Cd}_{0.2}\text{Te}$ CRYSTALS

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S u m m a r y

The influence of laser shock waves on the mechanical properties (microhardness, brittleness) of $\text{Hg}_{0.8}\text{Cd}_{0.2}\text{Te}$ crystals by microindentation and selective etching techniques is investigated. The parameters of dislocation rosettes around indentations as a function of the shock-wave front pressure are estimated. Starting stresses of dislocations are calculated. The results are in good agreement with the conclusions obtained on the basis of galvanomagnetic measurements.