Model of destruction of metals (lead, tin) in solid and liquid phases under the influence of shock waves of various intensities

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This report presents the results of computational studies of the destruction process of lead and tin in their solid and liquid phases under the influence of strong non-stationary waves. The calculations were performed using a one-dimensional Lagrangian method with a self-consistent system of constitutive relations that takes into account compression, plastic deformation, fracture, and compaction of damaged materials (SCR RING-DRK-L) [1]. The features of the formation of the density distribution of matter are shown.