**REGULARITIES OF DISTRIBUTION OF WIRE DEFORMATION**

**IN MULTILAYERED STRAND**

**WITH CIRCULAR CALIBRATION COMPRESSION**

**V.A. Haritonov, A.B. Ivantsov, Т.А. Lapteva**

"Magnitogorsk State Technical University named after G.I. Nosov»

The mechanism of metal flow during circular plastic calibrating (small) compression of a multilayered strand has been revealed and justified, on the basis of which a model for the deformation of wires has been developed. The technique allows to analyze the features of each stage of deformation of the strand, estimating the geometry of the contact of the wires and the nature of their interaction. This ensures the determination of the required amount of compression and the design of rational strand construction. It is shown that the entire crushing process is divided into five main stages.

Keywords: strand multilayer, compression calibrating, three-roller drawing, wire contact, arch