

INFLUENCE OF MAGNETIC FIELDS
ON RESISTANCE TO PLASTIC YIELD
OF CRYSTALLINE BODIES

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S u m m a r y

The results of investigations of the influence of constants and varying magnetic fields on the processes of plastic yield and change of a structural state of metals and alloys deformed in a wide temperature range under conditions of active tension and creep which were carried out in NSC KIPT and other research centers are presented. The obtained experimental data are analyzed, and the physical mechanisms of the magnetoplastic effect and the change of mechanical properties of magnetic-ordered materials as a result of the action of magnetic fields are discussed.