

STUDIES OF MAGNETIC SUSCEPTIBILITY  
IN PLASTICALLY DEFORMED SILICON  
AND GERMANIUM SINGLE CRYSTALS

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S u m m a r y

The nature and the type of magnetic ordering in plastically deformed Si and Ge single crystals have been discussed. The nonlinear component of magnetic susceptibility has been found, and its features have been analyzed. An interpretation of the experimental results in the framework of Langevin superparamagnetism has been proposed. The concentration of superparamagnetic clusters in the crystals and their magnetic moments have been estimated. The size distribution functions for magnetic clusters have been plotted on the basis of the superparamagnetic curves obtained for the magnetic susceptibility.