

MAGNETIC SUSCEPTIBILITY OF WHISKERS
OF $\text{Si}_{0.95}\text{Ge}_{0.05}$

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S u m m a r y

The investigation of magnetic susceptibility (MS) of $\text{Si}_{1-x}\text{Ge}_x$ ($x = 0.05$) whiskers at $T = 300$ K in the magnetic fields of 0.3–5 kOe is carried out. The submicron quasicylindrical whiskers ($0.1 < d < 3 \mu\text{m}$) and needle-like ones ($3 < d < 50 \mu\text{m}$) are studied. It is established that the behavior of MS for whiskers essentially differs from that of the bulk material, which is explained by the features of their crystalline structure and chemical composition. A theoretical model describing the obtained experimental results is suggested, and it is proved that they are well-grounded within this model.