

A Study of Magnetic Properties of $\text{Co}_{100-x}\text{B}_x$ and $\text{Fe}_{100-x}\text{B}_x$ ($17 \leq x \leq 31$) glassy Alloy

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Abstract

Saturation magnetization of $\text{Co}_{100-x}\text{B}_x$ and $\text{Fe}_{100-x}\text{B}_x$ amorphous alloys has been measured, using vibration magnetometer at room temperature and liquid nitrogen temperature with applied field parallel and perpendicular to magnetization of the sample. The saturation magnetization is higher at liquid nitrogen temperature than at room temperature. It is also higher when the applied field is parallel to magnetization than when the applied field is perpendicular to magnetization of the sample.