

Magnetic properties of the $\text{Ce}(\text{Co}_{1-x}\text{Fe}_x)_4\text{B}$ compounds

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Abstract: The influence of the substitution of Fe for Co on the magnetic properties of the CeCo_4B compound is studied. Upon substitution the Curie temperature increases with the rate of 12 K/Fe-at% whereas the magnetic anisotropy of the compound rapidly decreases. ?? 1995.

Index Keywords: Annealing; Cobalt; Hysteresis; Iron; Magnetic anisotropy; Magnetic fields; Magnetic properties; Magnetization; Substitution reactions; Thermal effects; Thermogravimetric analysis; X ray analysis; Cerium cobalt boron compounds; Curie temperature; Substitution effects; Thermal hysteresis; Zero field cooled curve; Cerium compounds

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