

Magnetic properties of $\text{Tb}_x\text{Y}_{1-x}\text{Cu}_2$ compounds at low temperatures

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Abstract: Magnetisation and susceptibility measurements are reported for the pseudobinary intermetallic compounds $\text{Tb}_x\text{Y}_{1-x}\text{Cu}_2$ ($x = 0.1, 0.3, 0.5, 0.7, 0.9$ and 1). Metamagnetic behaviour was observed at low temperatures in this system, except for $\text{Tb}_{0.1}\text{Y}_{0.9}\text{Cu}_2$. The critical magnetic field and the Néel temperature smoothly decrease with increasing Y content. The temperature dependence of the magnetisation of TbCu_2 was studied. The interaction parameters between Tb^{3+} ions were determined for the compounds investigated. ?? 1982.

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