The magneto crystalline anisotropy of $Y_2(Co_xFe_{1-x})_{17}$

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Abstract: The results of neutron diffraction studies on the preferential occupation of iron and cobalt atoms in the pseudobinary series $Nd_2(Fe_{1-x}Co_x)_{17}$ are used to evaluate the differences in the contribution of iron and cobalt atoms to the magnetic anisotropy of the four inequivalent crystallographic sites. With these four parameters an almost perfect fit to the experimental anisotropy data for the pseudobinary series $Y_2(Fe_{1-x}Co_x)_{17}$ is achieved. ?? 1986.

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