Spin reorientation in $ErCo_{10-x}Fe_x Mo_2$ compounds

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Abstract: The spin reorientation in $ErCo_{10-x}Fe_xMo_2$ (x = 0, 1, 2, 3 and 4) compounds has been studied by measurements of the temperature dependence of the magnetization. The spin reorientation in this system is due to the competing anisotropies of the erbium and the transition-metal sublattice. A decrease of the transition-metal sublattice anisotropy is believed to be the reason of the observed increase of the spin-reorientation temperature with increasing Fe content.
Author Keywords: Anisotropy; Hard-magnetic materials; Rare-earth-transition-metal compounds; Spin reorientation
Index Keywords: Magnetic anisotropy; Magnetic field effects; Magnetic materials; Magnetization; Polycrystalline materials; Thermal effects; Spin reorientation; Erbium compounds

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