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. ?? 2002 Elsevier Science B.V. All rights reserved.

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

Year: 2003

Source title: Physica B: Condensed Matter

Volume: 327

Issue: 4-Feb

Page : 262-265

Link: Scorpus Link

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Editors: Boer F RBrommer P EFranse J J M

Conference name: ISAMM 2002

Conference date: 2 October 2002 through 4 October 2002

Conference location: Ha Long Bay

Conference code: 60799

ISSN: 9214526

CODEN: PHYBE

DOI: 10.1016/S0921-4526(02)01756-8

Language of Original Document: English

Abbreviated Source Title: Physica B: Condensed Matter

Document Type: Conference Paper

Source: Scopus

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