Magnetic properties of $(Ce,R)(Fe,Al)_2$ compounds

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Abstract: The magnetization, ac susceptibility and the lattice parameter have been studied in the series of the $Ce_{1-x}Y_xFe_2$ (0.0 ?? x ?? 1.0) and $(Ce_{0.8}R_{0.2})(Fe_{1-x}Al_x)_2$ (R = Y, Lu, Gd and Sm) compounds. The various magnetic behaviors are discussed in terms the delocalised character of Ce 4f-electron. ?? 1995.

Index Keywords: Electronic properties; Electrons; Ferromagnetic materials; Lattice constants; Magnetic moments; Magnetic permeability; Magnetic properties; Magnetic variables measurement; Magnetization; X ray diffraction; AC susceptibility; Cerium yttrium iron compounds; Curie temperature; Delocalisation; Lattice parameter; Cerium compounds

Year: 1995
Source title: Journal of Magnetism and Magnetic Materials
Volume: 140-144
Issue: PART 2
Page : 1113-1114
Cited by: 1
Link: Scorpus Link
Correspondence Address: Duc, N.H.; Cryogenic Laboratory, University of Hanoi, Hanoi, Viet Nam
ISSN: 3048853
CODEN: JMMMD
Language of Original Document: English
Abbreviated Source Title: Journal of Magnetism and Magnetic Materials
Document Type: Article
Source: Scopus
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