Spin fluctuation scattering in RCo_2 compounds

Duc N.H., Hien T.D.

Cryogenic Laboratory, University of Hanoi, Hanoi, Viet Nam

Abstract: Field dependent resistivity measurements have been performed for $NdCo_2$ and $PrCo_2$ compounds. The influence of the localized 4f-moments, interacting with the 3d-matrix, is accentuated by subtracting the resistivity of YCo_2 from the observed resistivity values. The excess resistivity ???? (= ??(RCo_2) - ??(YCo_2)) which is enhanced above T_C by the presence of 4f-atoms is strongly temperature dependent. The results are discussed in terms of the thermal variation of the number of the Co-enhanced paramagnetic atoms. ?? 1995.

Index Keywords: Atoms; Electric conductivity measurement; Magnetic field effects; Magnetic moments; Magnetization; Melting; Neodymium alloys; Neutron scattering; Thermal effects; Arc melting; Spin fluctuation scattering; Cobalt alloys

Year: 1995
Source title: Journal of Magnetism and Magnetic Materials
Volume: 140-144
Issue: PART 2
Page : 823-824
Cited by: 5
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

Authors with affiliations:

1. Duc, N.H., Cryogenic Laboratory, University of Hanoi, Hanoi, Viet Nam
2. Hien, T.D., Cryogenic Laboratory, University of Hanoi, Hanoi, Viet Nam