

substance: Fe_3O_4

property: magnetoresistance, Hall effect data

magnetoresistance: The resistivity in $[110]$ direction decreases by 0.1% on application of a magnetic field in $[110]$ or $[111]$ direction but increases by 0.1% if the field is parallel to $[100]$ [50D].

Hall coefficient, Hall mobility: Fig. 1. The Hall mobility is apparently unactivated for $T < T_V$ and the Hall coefficient is positive.

References:

- 50D Domenciali, C. A.: Phys. Rev. 78 (1950) 458.
- 70S Siemans, W. J.: IBM J. Res. Develop. 14 (1970) 245.

Fig. 1.

Fe_3O_4 . Hall coefficient and Hall mobility vs. reciprocal temperature near the Verwey transition [70S].

