

substance: CrSe

property: crystal structure, physical properties

(The references in the last column refer to all data of this document)

lattice parameters

a	3.67 Å	structure: B8, $D_{6h}^4 - P6_3/mmc$	61C, 62M, 67I, 77J
c	6.01 Å		

Figures to this document:

electrical conductivity, resistivity: Fig. 1, 2

spin configuration: Fig. 3

magnetic susceptibility: Fig. 4

References:

- 61C Corliss, L. M., Elliott, N., Hastings, J. M., Sass, R. L.: Phys. Rev. 122 (1961) 1402.
- 62M Masumoto, K., Hihara, T., Kamigaichi, T.: J. Phys. Soc. Jpn. 17 (1962) 1209.
- 67I Ivanova, V. A., Abdinov, D. Sh., Aliev, G. M.: Phys. Status. Solidi 24 (1967) K145.
- 77J Joshi, D. K., Karunakaran, C., Vaidya, S. N., Karkhanavala, M. D.: Mater. Res. Bull. 12 (1977) 1111.

Fig. 1.

CrSe. Electrical conductivity vs. reciprocal temperature [77J]. Polycrystalline pellets.

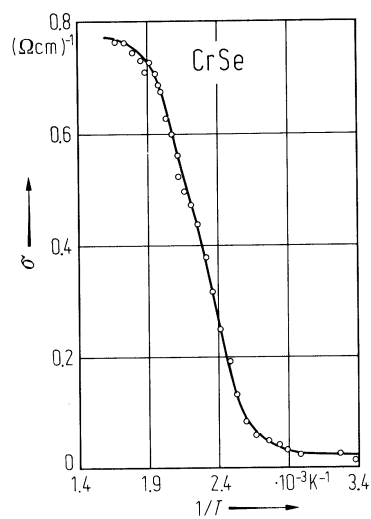


Fig. 2.

CrSe. Resistance vs. pressure at RT [77J].

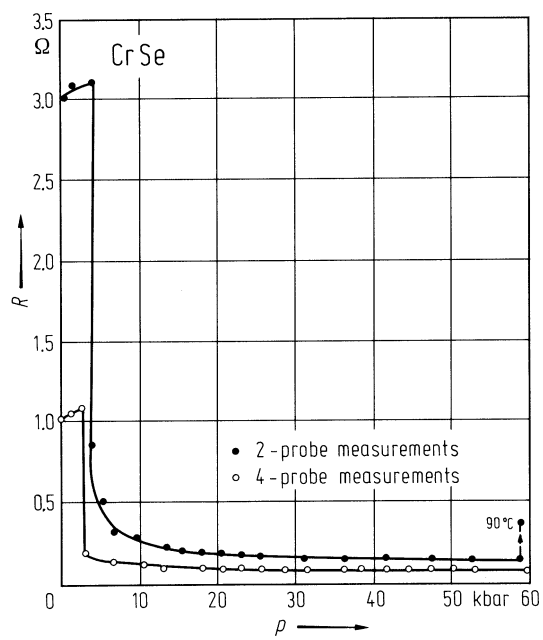


Fig. 3.

CrSe. "Umbrella" model for the spin configuration. The magnetic moments in both the $z = 0$ and $z = 1/2$ level of the unit cell are shown in relation to the threefold axis [61C].

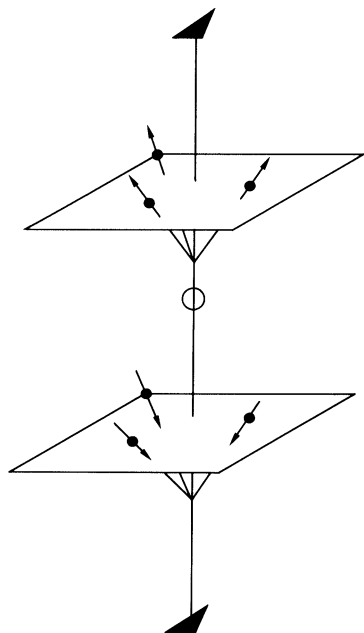


Fig. 4.

CrSe. Inverse magnetic susceptibility per gram-atom (in CGS-emu) vs. temperature. Curves 1 and 2 are obtained for quenched and annealed specimens, respectively [62M].

