

this assumption is not valid. However, in this case the number of Mn atoms remains constant throughout the concentration range, and therefore we expect the number of magnetic d electrons to remain more or less constant.

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³⁰If we assume a ratio I/I_b for MnSb, then I/I_b is fixed,

through Eq. (3), for the solid solutions when $x > 0$. The results shown in Fig. 7 are independent of the assumed value of I/I_b for MnSb.

³¹The lattice parameters for MnSb and MnAs at $T = 20^\circ\text{C}$ were taken from the work of B. T. M. Willis and H. P. Rooksby, Proc. Phys. Soc. (London) 67B, 290 (1954). To obtain values for the intermediate solid solutions a linear extrapolation was used as the data of Ref. 3 suggest.

³²For ZrZn_2 , the Fermi level lies at the peak in the density of states that has a full width of approximately 0.16 eV [G. S. Knapp, F. Y. Fradin, and H. V. Culbert, J. Appl. Phys. 42, 1341 (1971)].

³³J. B. Goodenough (private communication).