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Localized Impurity States in Liquid Metals: Paramagnetic Susceptibilities of Manganese in Liquid Metals

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Abstract

The variation with temperature of paramagnetic susceptibilities of several alloys of In-Mn, Sn-Mn, Sb-Mn and Bi-Mn systems in their liquid states has been investigated. It obeys a Curie law in the range of temperature up to 1000°C for compositions less than about 15 atomic percent manganese. The Bohr magneton numbers derived from the experiment lie between 4.5 and 5.2, and their dependence on manganese concentration is discussed.

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