The Change of Curie Temperature of Ordered Au_4Mn and the Indium Heusler Alloy by Hydrostatic Pressure

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Abstract

The change of Curie point by the application of hydrostatic pressure of 3 katm. to the Indium Heusler alloy as well as the intermetallic compound Au_4Mn was measured. It was found that the rate of change took positive value 1.5×10^{-3} and 2.7×10^{-3} deg/kg/cm^2 for Heusler alloy and Au_4Mn respectively. It was also elucidated that the change of absolute saturation of magnetization for both alloys was negative, -2.1×10^{-12} and -7.2×10^{-12} cm^2/dyne respectively.

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