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Low-Temperature Phase Transition near V_3H_2 *

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*The Research Institute for Iron, Steel and Other Metals***Abstract**

Heat capacity measurements have been made on the V-H alloys with the compositions $VH_{0.51}$ to $VH_{0.77}$ in the temperature range from -140 to 50°C . Anomalous heat absorptions are observed at -100 to -50°C depending on composition, indicating the occurrence of a phase transition attributed to the hydrogen ordering. A model of the superstructure of V_3H_2 is proposed for the low-temperature form on the basis of electron diffraction work by Wanagel et al.

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