

DEFORMATIVE HYSTERESIS AND ELASTIC
PLIABILITY OF CRYSTALS WITH THE $H4$
STRUCTURE NEAR THE CURIE POINT

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S u m m a r y

The statistical theory of spontaneous deformative ordering in crystals with the $H4$ structure of the CaWO_4 type is developed. The thermodynamical potential is estimated, its dependence on temperature and the parameter of deformative order is found, and the temperature dependence of the parameter of order is defined. The deformative hysteresis at the neighbourhood of the Curie temperature is established, and the temperature dependence of elastic constants is determined. The truth of both the Curie - Weiss law and the minus two rule near the phase transformation temperature is stipulated. The comparison of the results obtained and experimental data shows their qualitative correspondence.