CUSTOM TRANSLATION

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CHEMISTRY

CALCULATED AND EXPERIMENTAL PHASE DIAGRAMS OF THE SIMPLES BINARY SYSTEMS

(E/T)

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The position of the curves representing the decomposition of $\frac{1-4}{1-4}$ solutions on the phase diagrams of binary systems may be calculated from $\frac{1+4}{1-4}$ is a by the melting points T_A and T_B of the pure components, and b) by their heats of fusion Q_A and Q_B , and $\frac{1}{2}$ with $\frac{1}{2}$ also c) from the value of the so-called energies of mixing in different phases $(U_o^I \text{ in the liquid, } U_o^{II} \text{ inxthe, } U_o^{III} \text{ etc. in the solid phases}). Theory has as yet only been compared with experiment <math>\frac{1}{4}$ for four binary systems having diagrams of the same type, with a eutectic point and with complete insolubility in the solid phases. In this paper we present a comparison with twenty experimental diagrams of three different types.

<u>1. Diagram of the "Cigar "Type</u>. The conditions for the formation of this type of diagram, according to calculation, are the following :

a) The system should be two-phase (both components in the section