should have the same type of crystal lattice in the solid phase ; on the approximation taken for the calculation, this corresponds to having the same change in entropy for the two components on melting, ... , in which k is Botzmann's constant and q is the change in entropy referred to one particle).

Fig. 1. Cu-Ni. 1) Experimental curve ; 2) ..... ; 3) .....erg/particle.

---

b) The following inequalities should be satisfied :

..... R.p. 387 (1)(2)

where x and y are the concentrations of the liquid and solid solutions.

The latter inequalities may in practice be written /4/ in the form:

.....R.p. 387 (2a)

since the products x(1 - x) and y(1 - y) are always..... . The equations of the lines x = x(T) and y = y(T) bounding the region of phase separation

.....R.p. 387 (3)

may approximately be represented (after expanding the logarithms of the denominators into series in powers of.....and....., where .....and.....)in the form

.....R.p. 388 (4a) (4b)

For.....these correspond to a "cigar" symmetrical with respect to the straight line joining the melting points of the components :