

Instruction notes

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The factor $\frac{1}{8}$ comes from the fact that we only consider positive values for n_x , n_y and n_z . Thus, the half of the half of the half of the total (positive and negative n -space in 3 dimensions) is taken as valid.

Closed system \rightarrow Helmholtz free energy

Isolated system \rightarrow Entropy/internal energy

Isothermal & isobaric (both) system \rightarrow Gibbs free energy

Open system (μ, T, V fixed) $\rightarrow \Phi = F - \mu N$

In general, choose the thermodynamic potential which depends on