

Homework

Problems 3.5, 3.7, 3.14, 3.20, 3.21, 3.23, 3.31, 3.32, 3.37

Chapter 3

Problem 3.5. Starting with the result of Problem 2.17, find a formula for the temperature of an Einstein solid in the limit $q \ll N$. Solve for the energy as a function of temperature to obtain $U = N\epsilon e^{-\frac{U}{N\epsilon}}$ (where ϵ is the size of an energy unit).

The definition of temperature in terms of energy is

$$\frac{1}{T} = \frac{\partial S}{\partial U}$$

Let's look at the Einstein solid in low temperature case where the number of energy quanta (q) is very small than the number of oscillations (N). (i.e. $q \ll N$) The multiplicity of such a system is approximately

$$\Omega \approx \left(\frac{N+q}{q} \right)^q$$

The total energy of the system is $U = q\epsilon$ so

$$\Omega \approx \left(\frac{N+\epsilon q}{U} \right)^q$$

Hence the entropy is

$$S = k \ln \Omega$$

$$= k \ln \left(\frac{N+\epsilon q}{U} \right)^q = k q \ln \left(\frac{N+\epsilon q}{U} \right)$$

$$= k q \cdot \{ \ln(N+\epsilon q) - \ln(U) \}$$

$$= \frac{k U}{\epsilon} (\ln(\epsilon N) + 1 - \ln(U))$$

So,

$$\frac{\partial S}{\partial U} = k \frac{\partial (\ln \Omega)}{\partial U}$$

$$\frac{1}{T} = \frac{k}{\epsilon} \frac{\partial U (\ln(\epsilon N) + 1 - \ln(U))}{\partial U}$$

(Using Product Rule)

$$= \frac{k}{\epsilon} (\ln(\epsilon N) + 1 - \ln(U)) - \frac{k}{\epsilon}$$

$$= \frac{k}{\epsilon} (\ln(\epsilon N) - \ln(U))$$

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