

20.1 SHO $Z = \frac{e^{-\frac{1}{2}\beta\hbar\omega}}{1 - e^{-\beta\hbar\omega}}$ $\beta \rightarrow 0 \Rightarrow e^{-\beta\hbar\omega} \rightarrow 1 - \beta\hbar\omega$
 $\Rightarrow Z \rightarrow 1/\beta\hbar\omega$

$$U = - \frac{d \ln Z}{d\beta} = -\beta\hbar\omega \left(\frac{-1}{\beta^2\hbar\omega} \right) = \frac{1}{\beta} \Rightarrow C = k_B$$

$$F = -k_B T \ln Z = k_B T \ln(\hbar\omega/k_B T)$$

$$S = -(\partial F / \partial T)_V = -k_B \ln(\hbar\omega/k_B T) - k_B T \cdot \frac{k_B T}{\hbar\omega} \cdot \frac{\hbar\omega}{k_B} \left(-\frac{1}{T^2} \right)$$

$$= k_B \left[\ln(k_B T / \hbar\omega) + 1 \right]$$

Rotational levels analogous with $\hbar\omega \rightarrow \hbar^2/2I$

20.2 eqn 20.11 $\Rightarrow \ln P_j = -\beta E_j - \ln Z$

eqn 20.14 $\Rightarrow F = -k_B T \ln Z \Rightarrow -\ln Z = \beta F \Rightarrow \text{result.}$

20.3 eqn 20.29 is $U = \hbar\omega \left[\frac{1}{2} + \frac{1}{e^{\beta\hbar\omega} - 1} \right] = \frac{\hbar\omega}{2} \left[\frac{e^{\beta\hbar\omega} + 1}{e^{\beta\hbar\omega} - 1} \right]$
 $= \frac{\hbar\omega}{2} \left[\frac{e^{\beta\hbar\omega/2} + e^{-\beta\hbar\omega/2}}{e^{\beta\hbar\omega/2} - e^{-\beta\hbar\omega/2}} \right] = \text{result.}$

$$\frac{\beta\hbar\omega}{2} \coth \frac{\beta\hbar\omega}{2} = \frac{\hbar\omega}{2} + \frac{\beta\hbar\omega}{e^{\beta\hbar\omega} - 1}$$

$$-\ln(1 - e^{-\beta\hbar\omega}) = -\ln \left[\frac{e^{\beta\hbar\omega/2} - e^{-\beta\hbar\omega/2}}{e^{\beta\hbar\omega/2}} \right] = \frac{\beta\hbar\omega}{2} - \ln \left[2 \sinh \frac{\beta\hbar\omega}{2} \right]$$

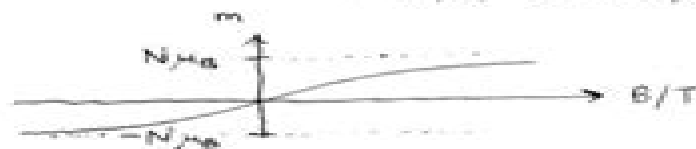
$$\Rightarrow \text{result.}$$

20.4 Apparent from eqns 20.29-20.32, and exactly as you would expect

20.5 (a) $Z = e^{\beta\mu_B B} + e^{-\beta\mu_B B} = 2 \cosh(\beta\mu_B B)$

(b) $F = -k_B T \ln Z_N = -N k_B T \ln [2 \cosh(\beta\mu_B B)]$

(c) $m = -(\partial F / \partial B)_T = N k_B T \frac{\sinh(\beta\mu_B B)}{\cosh(\beta\mu_B B)} \cdot \beta\mu_B B$
 $= N \mu_B \tanh(\beta\mu_B B)$



(d) $\tanh x \approx x$ for $x \ll 1 \Rightarrow m \approx N \mu_B^2 B / k_B T$

(e) $\chi \approx \frac{\mu_B M}{B} = \mu_B \frac{N}{V} \frac{\mu_B^2}{k_B T} \propto \frac{1}{T}$ (Curie's law)

Blundell And Blundell Solutions Manual

Edward John Waring



Blundell And Blundell Solutions Manual:

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Blundell And Blundell Solutions Manual**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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