

Study Guide 16

1.1 N_0 = ground state / N_h = # of mol at $0.76 k_B T$ / N_c = # of mol at $1 k_B T$

$$N_h = N_0 e^{-0.76} = 2000$$

$$N_c = N_0 e^{-1} = 5500$$

$$\frac{2000}{5500} = \frac{e^{-0.76}}{e^{-1}}$$

$$e^c = \frac{2000}{5500} e^{-0.76} = 0.76$$

$$-\ln C = -\ln 0.76$$

$$C = 0.27$$

2.1.1 $\rho = 1.3 \times 10^3 \text{ kg/m}^3$ / $r = 0.22 \times 10^{-2} \text{ m}$
 mass = vol. $\times \rho = \frac{4}{3} \pi r^3 \times \rho$
 mass = $\frac{4}{3} \pi (0.22 \times 10^{-2} \text{ m})^3 \times 1.3 \times 10^3 \text{ kg/m}^3$
 $= 5.4 \times 10^{-7}$

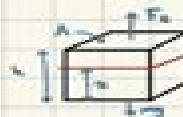
2.1.2 Apparent weight = Weight - Weight of displaced fluid (Archimedes's Principle)

mass of displaced water = $\frac{4}{3} \pi r^3 \times \rho_{\text{water}}$
 $= \frac{4}{3} \pi (0.22 \times 10^{-2})^3 \times 1000$
 $\therefore = 4.46 \times 10^{-7} \text{ kg}$

apparent weight = $(5.4 \times 10^{-7}) - 4.46 \times 10^{-7}$
 $= 0.94 \times 10^{-7} \text{ kg} = 0.94 \times 10^{-6} \text{ N}$

2.2 $\rho_{\text{ice}} = 917 \text{ kg/m}^3$, $\rho_{\text{water}} = 925 \text{ kg/m}^3$

'floats' $\Rightarrow F_b = mg \Rightarrow \rho g (\text{vol submerged}) = \rho g (\text{vol})$
 $\rho_{\text{ice}} V_{\text{ice}} = \rho_{\text{water}} V_{\text{submerged}}$
 $\frac{V_{\text{submerged}}}{V_{\text{ice}}} = \frac{\rho_{\text{ice}}}{\rho_{\text{water}}} = 0.991$



3.1 particles in Boltzmann-type exerts obey Boltzmann eq'n

$$\frac{N}{N_0} = e^{-mgh/kT} \Rightarrow \frac{N}{N_0} = e^{-\frac{\rho V g h}{kT}}$$

$$\frac{N_h}{N_0} = \frac{40}{120} = e^{-g h}$$

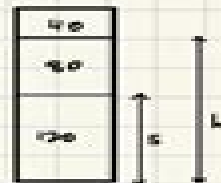
$$g = -\ln\left(\frac{40}{120}\right) \div 5$$

$$= 0.098 \text{ cm}^{-1}$$

$$\frac{N}{N_0} = \frac{40}{120} = e^{-0.098 h}$$

$$\ln\left(\frac{40}{120}\right) = -0.098 h$$

$$h = 13.6 \text{ cm}$$



Physics 16 Study Guide Answers

RJ Alexander



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