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Selected Physical Constants Quantity  
Symbol SI Units cgs Units number NA  
constant  $k$  6.022  $\cdot 10$  1.38 K Bohr  
magneton Electron charge Electron  
mass Gas constant Permeability of a  
vacuum Permittivity of a vacuum  
constant  $m_B$   $e$   $R$   $m_0$   $h$  9.27 A  $m^2$  1.602  
C 9.11 kg 8.31 K 1.257 8.85 6.63 J s  
Velocity of light in a vacuum  $c$  3  $\cdot 10^8$   
6.022  $\cdot 10^{23}$  1.38 K 8.62 K 9.27 4.8  
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4.2 For some hypothetical metal, the equilibrium number of vacancies at 900 C is  $2.3 \times 10^{25} \text{ m}^{-3}$ . If the density and atomic weight of this metal are  $7.40 \text{ g/cm}^3$  and  $85.5 \text{ g/mol}$ , respectively, calculate the fraction of vacancies for this metal at 900 C. Solution This problem is solved using two steps: (1) calculate the total number of lattice sites in silver,  $N$ , using

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