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Symbol SI Units cgs Units number NA
constant k 6.022 10²³ 1.38 K Bohr
magneton Electron charge Electron
mass Gas constant Permeability of a
vacuum Permittivity of a vacuum
constant mB e R m₀ h 9.27 A m² 1.602
C 9.11 kg 8.31 K 1.257 8.85 6.63 J s
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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 g/cm^3 and 85.5 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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