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Symbol SI Units cgs

Units number NA

constant k 6.022 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 m²

1.602 C 9.11 kg 8.31 K

1.257 8.85 6.63 J s

Velocity of light in a

vacuum c 3 10⁸ 6.022

10²³ 1.38 K 8.62 K

9.27 4.8 statcoulb 9.11

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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

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is solved using two steps: (1) calculate the total number of lattice sites in silver, N , using

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