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Jr. David G. Rethwisch Values of
Selected Physical Constants Quantity
Symbol SI Units cgs Units number NA
constant k 6.022×10^{23} 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 $9.27 \times 10^{-24} \text{ A m}^2$ $1.602 \times 10^{-19} \text{ C}$ $9.11 \times 10^{-31} \text{ kg}$ $8.31 \text{ J K}^{-1} \text{ mol}^{-1}$ $1.257 \times 10^{-6} \text{ T m}^2 \text{ A}^{-1}$ $8.85 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$ $6.63 \times 10^{-34} \text{ J s}$
Velocity of light in a vacuum c $3 \times 10^8 \text{ m s}^{-1}$
 6.022×10^{23} $1.38 \text{ J K}^{-1} \text{ mol}^{-1}$ $8.62 \times 10^{-5} \text{ eV K}^{-1}$ $9.27 \times 10^{-24} \text{ A m}^2$ $4.8 \times 10^{-19} \text{ C}$
statcoulb $9.11 \times 10^{-31} \text{ kg}$ $1.987 \times 10^{-16} \text{ J K}^{-1} \text{ mol}^{-1}$ unity μ_0 ϵ_0 ...

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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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