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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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