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4.2 For some hypothetical metal, the equilibrium number of vacancies at 900 C is 2.3 10<sup>25</sup> m<sup>-3</sup>. If the density and atomic weight of this metal are 7.40 g/cm<sup>3</sup> 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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