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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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Melting temperature (°C) Melting point as a function of atomic number 200 180 160 140 120 100 80 60 40 20 0 0. 10. 20. 30. 40. 50. 60. Atomic number (Z) As the atomic number increases, the ...

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As the atomic number increases, the melting temperature decreases, in contrast to the trend found in Problem 2-15. 2-17 Compare and contrast metallic and covalent primary bonds in terms of (a) the nature of the bond; (b) the valence of the atoms involved; and (c) the ductility of the materials bonded in these ways. Solution: (a) Metallic bonds are formed between the one or two free electrons

### Chapter 2

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