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Solution From Coulomb's law of electrostatic attraction we know that the PE between two charges  $Q_1$  and  $Q_2$  separated by a distance  $r$  is given by  $Q_1 Q_2 / (4\pi\epsilon_0 r^2)$ . First we consider the interaction between  $Na^+$  ion and  $6Cl^-$  ions at distance  $r$ . Applying Coulomb's law we have  $Q_1 Q_2 / (4\pi\epsilon_0 r^2) = 6e \cdot 12e / (4\pi\epsilon_0 r^2) = 72e^2 / (4\pi\epsilon_0 r^2)$ . Similarly, we now consider  $12 Na^+$  ions as second nearest neighbors at a distance  $r$ .  $Q_1 Q_2 / (4\pi\epsilon_0 r^2) = 12e \cdot 12e / (4\pi\epsilon_0 r^2) = 144e^2 / (4\pi\epsilon_0 r^2)$  and  $Cl^-$  ...

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Ernest Rutherford (1871-1937) 1.37 fSolutions to Principles of Electronic Materials and Devices: 2nd Edition (Summer 2001) Chapter 2 Second Edition ( 2001 McGraw-Hill) Chapter 2 2.1 Electrical conduction Na is a monovalent metal (BCC) with a density of 0.9712 g cm<sup>-3</sup>. Its atomic mass is 22.99 g mol<sup>-1</sup>.

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