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Solution From Coulomb's law of electrostatic attraction we know that the PE between two charges Q1 and Q2 separated by a distance r is given by $Q_1 Q_2 / (4\pi\epsilon_0 r^2)$ or First we consider the interaction between Na⁺ ion and Cl⁻ ions at distance r Applying Coulomb's law we have $Q_1 Q_2 / (4\pi\epsilon_0 r^2) = 6e PE_1 = = 4??$ or $r^2??$ or $r^4??$ or r Similarly, we now consider 12 Na⁺ ions as second nearest neighbors at a distance r $Q_1 Q_2 / (4\pi\epsilon_0 r^2) = 12e PE_2 = = 4??$ or $r^4??$ or r or Cl ...

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Principles of electronic materials and devices, Volume 1 ...

Ernest Rutherford (1871-1937) 1.37 ISolutions 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⁻³. Its atomic mass is 22.99 g mol⁻¹.

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