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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 $QQ \text{ PE} = 4\pi \epsilon_o r$ First we consider the interaction between Na^+ ion and 6Cl^- ions at distance r Applying Coulomb's law we have $Q1Q2 (-6e)(+e) = 6e \text{ PE1} = - = 4\pi \epsilon_o r 4\pi \epsilon_o r 4\pi \epsilon_o r$ Similarly, we now consider 12 Na^+ ions as second nearest neighbors at a distance r $QQ (+12e)(+ e) 12e = \text{PE2} = - = 4\pi \epsilon_o r 4\pi \epsilon_o r 4\pi \epsilon_o r$ and Cl ...

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Solutions to Principles of Electronic Materials and Devices: 4th Edition (25 April 2017)Chapter 11.2 Virial theorem and the He atom In Example 1.1 we calculated the radius of the H-atom using theVirial theorem. First consider the He⁺ atom, which as shown in Figure 1.75a, has one electron in the Kshell orbiting the nucleus.

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