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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  $Q_1 Q_2 / (4\pi\epsilon_0 r)$  First we consider the interaction between Na<sup>+</sup> ion and 6Cl<sup>-</sup> ions at distance r Applying Coulomb's law we have  $Q_1 Q_2 / (4\pi\epsilon_0 r) = (-6e)(+e) / (4\pi\epsilon_0 r) = -6e^2 / (4\pi\epsilon_0 r)$  Similarly, we now consider 12 Na<sup>+</sup> ions as second nearest neighbors at a distance r  $Q_1 Q_2 / (4\pi\epsilon_0 r) = (+12e)(+ e) / (4\pi\epsilon_0 r) = +12e^2 / (4\pi\epsilon_0 r)$  and Cl ...

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### Principles of Electronic Materials and Devices by Safa O ...

Electronic Materials is an essential reference for newcomers to the field of electronics, providing a fundamental understanding of important basic and advanced concepts in electronic materials science.

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