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**Principles of Electronic Materials and Devices: Kasap** I have used Kasap's 3rd edition of "Principles of Electronic Materials and Devices" as a course textbook for the 2nd year "Materials Physics" course (in Department of Materials Science & Engineering (MSE) at University of Toronto (UoT)).

**Principles of Electronic Materials and Devices: Kasap** 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  $Q_1 Q_2 / r$  First we consider the interaction between Na+ ion and 6Cl- ions at distance r Applying Coulomb's law we have  $Q_1 Q_2 / r^2 = (6e)(+e) / r^2 = 6e^2 / r^2$  Similarly, we now consider 12 Na+ ions as second nearest neighbors at a distance r  $Q_1 Q_2 / r^2 = (12e)(+e) / r^2 = 12e^2 / r^2$

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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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