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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 (UofT)).

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

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

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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