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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  $Q_1$  and  $Q_2$  separated by a distance  $r$  is given by  $PE = \frac{Q_1 Q_2}{4\pi\epsilon_0 r}$  First we consider the interaction between  $Na^+$  ion and  $6Cl^-$  ions at distance  $r$  Applying Coulomb's law we have  $PE_1 = \frac{(+e)(-6e)}{4\pi\epsilon_0 r} = -\frac{6e^2}{4\pi\epsilon_0 r}$  Similarly, we now consider 12  $Na^+$  ions as second nearest neighbors at a distance  $r$   $PE_2 = \frac{(+12e)(+e)}{4\pi\epsilon_0 r} = \frac{12e^2}{4\pi\epsilon_0 r}$  and  $Cl^-$  ions at distance  $r$   $PE_3 = \frac{(-6e)(+12e)}{4\pi\epsilon_0 r} = -\frac{72e^2}{4\pi\epsilon_0 r}$

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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  $0.9712 \text{ g cm}^{-3}$ . Its atomic mass is  $22.99 \text{ g mol}^{-1}$ .

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C0078028183 SM - Solutions Manual to Principles of Electronic Materials and Devices Safa Kasap. Solutions Manual to Principles of Electronic Materials and Devices Safa Kasap Chapter 2. University. Shahjalal University of Science and Technology. Course. Electrical Properties of Materials (EEE 327) Academic year. 2017/2018

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