

## 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  $22.99 \text{ g mol}^{-1}$ . The drift mobility of electrons in Na is  $53 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ .

- Consider the collection of conduction electrons in the solid. If each Na atom donates one electron to the electron sea, *estimate* the mean separation between the electrons. (Note: if  $n$  is the concentration of particles, then the particles' mean separation  $d = 1/n^{1/3}$ .)
- Estimate the mean separation between an electron ( $e^-$ ) and a metal ion ( $\text{Na}^+$ ), assuming that most of the time the electron prefers to be between two neighboring  $\text{Na}^+$  ions. What is the approximate Coulombic interaction energy (in eV) between an electron and an  $\text{Na}^+$  ion?
- How does this electron/metal-ion interaction energy compare with the average thermal energy per particle, according to the kinetic molecular theory of matter? Do you expect the kinetic molecular theory to be applicable to the conduction electrons in Na? If the mean electron/metal-ion interaction energy is of the same order of magnitude as the mean KE of the electrons, what is the mean speed of electrons in Na? Why should the mean kinetic energy be comparable to the mean electron/metal-ion interaction energy?
- Calculate the electrical conductivity of Na and compare this with the experimental value of  $2.1 \times 10^7 \text{ } \Omega^{-1} \text{ m}^{-1}$  and comment on the difference.

### Solution

a. If  $D$  is the density,  $M_a$  is the atomic mass and  $N_A$  is Avogadro's number, then the atomic concentration  $n_a$  is

$$n_a = \frac{DN_a}{M_a} = \frac{(971.2 \text{ kg})(6.022 \times 10^{23} \text{ mol}^{-1})}{(22.99 \times 10^{-3} \text{ kg mol}^{-1})} = 2.544 \times 10^{28} \text{ m}^{-3}$$

which is also the electron concentration, given that each Na atom contributes 1 conduction electron.

If  $d$  is the mean separation between the electrons then  $d$  and  $n_a$  are related by (see Chapter 1 Solutions, Q1.11; this is only an estimate)

$$d \approx \frac{1}{n_a^{1/3}} = \frac{1}{(2.544 \times 10^{28} \text{ m}^{-3})^{1/3}} = 3.40 \times 10^{-10} \text{ m or } 0.34 \text{ nm}$$

b. Na is BCC with 2 atoms in the unit cell. So if  $a$  is the lattice constant (side of the cubic unit cell), the density is given by

$$D = \frac{(\text{atoms in unit cell})(\text{mass of 1 atom})}{\text{volume of unit cell}} = \frac{2\left(\frac{M_a}{N_A}\right)}{a^3}$$

isolate for  $a$ , 
$$a = \left[ \frac{2M_a}{DN_a} \right]^{1/3} = \left[ \frac{2(22.99 \times 10^{-3} \text{ kg mol}^{-1})}{(0.9712 \times 10^3 \text{ kg m}^{-3})(6.022 \times 10^{23} \text{ mol}^{-1})} \right]^{1/3}$$

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### **Table of Contents Kasap 3rd Edition Solution Manual**

1. Understanding the eBook Kasap 3rd Edition Solution Manual
  - The Rise of Digital Reading Kasap 3rd Edition Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Kasap 3rd Edition Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Kasap 3rd Edition Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Kasap 3rd Edition Solution Manual
  - Personalized Recommendations

- Kasap 3rd Edition Solution Manual User Reviews and Ratings
- Kasap 3rd Edition Solution Manual and Bestseller Lists
- 5. Accessing Kasap 3rd Edition Solution Manual Free and Paid eBooks
  - Kasap 3rd Edition Solution Manual Public Domain eBooks
  - Kasap 3rd Edition Solution Manual eBook Subscription Services
  - Kasap 3rd Edition Solution Manual Budget-Friendly Options
- 6. Navigating Kasap 3rd Edition Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Kasap 3rd Edition Solution Manual Compatibility with Devices
  - Kasap 3rd Edition Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Kasap 3rd Edition Solution Manual
  - Highlighting and Note-Taking Kasap 3rd Edition Solution Manual
  - Interactive Elements Kasap 3rd Edition Solution Manual
- 8. Staying Engaged with Kasap 3rd Edition Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kasap 3rd Edition Solution Manual
- 9. Balancing eBooks and Physical Books Kasap 3rd Edition Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kasap 3rd Edition Solution Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Kasap 3rd Edition Solution Manual
  - Setting Reading Goals Kasap 3rd Edition Solution Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kasap 3rd Edition Solution Manual
  - Fact-Checking eBook Content of Kasap 3rd Edition Solution Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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47 tabel 4 6 perhitungan masing masing

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