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Chapter 5: Atom and Ion Movements in Materials

- 5-10 Atoms are found to move from one lattice position to another at the rate of 5×10^5 jumps/s at 400°C when the activation energy for their movement is $30,000 \text{ cal/mol}$. Calculate the jump rate at 750°C .

Solution:

$$\begin{aligned}\text{Rate} &= \frac{5 \times 10^5}{x} = \frac{c \exp[-30,000/(1.987)/(673)]}{c_v \exp[-30,000/(1.987)/(1023)]} = \exp(-22.434 + 14.759) \\ \frac{5 \times 10^5}{x} &= \exp(-7.675) = 4.64 \times 10^{-4} \\ x &= \frac{5 \times 10^5}{4.64 \times 10^{-4}} = 1.08 \times 10^9 \text{ jumps/s}\end{aligned}$$

- 5-11 The number of vacancies in a material is related to temperature by an Arrhenius equation. If the fraction of lattice points containing vacancies is 8×10^{-5} at 600°C , determine the fraction of lattice points containing vacancies at 1000°C .

Solution: $8 \times 10^{-5} = \exp[-Q/(1.987)/(873)]$ $Q = 16,364 \text{ cal/mol}$
 $f = n_v/n = \exp[-16,364/(1.987)/(1273)] = 0.00155$

- 5-12 The Arrhenius equation was originally developed for comparing rates of chemical reactions. Compare the rates of a chemical reaction at 20 and 100°C by calculating the ratio of the chemical reaction rates. Assume that the activation energy for liquids in which the chemical reaction is conducted is 10 kJ/mol and that the reaction is limited by diffusion.

Solution:

An Arrhenius relationship gives the rate of a process or reaction as a function of temperature. In general, for an Arrhenius relationship,

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Alfred Rudin



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Table of Contents Askeland Solution Manual Polymers

1. Understanding the eBook Askeland Solution Manual Polymers
 - The Rise of Digital Reading Askeland Solution Manual Polymers
 - Advantages of eBooks Over Traditional Books
2. Identifying Askeland Solution Manual Polymers
 - 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 Askeland Solution Manual Polymers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Askeland Solution Manual Polymers
 - Personalized Recommendations
 - Askeland Solution Manual Polymers User Reviews and Ratings
 - Askeland Solution Manual Polymers and Bestseller Lists
5. Accessing Askeland Solution Manual Polymers Free and Paid eBooks
 - Askeland Solution Manual Polymers Public Domain eBooks
 - Askeland Solution Manual Polymers eBook Subscription Services
 - Askeland Solution Manual Polymers Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Askeland Solution Manual Polymers Compatibility with Devices
 - Askeland Solution Manual Polymers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Askeland Solution Manual Polymers
 - Highlighting and Note-Taking Askeland Solution Manual Polymers
 - Interactive Elements Askeland Solution Manual Polymers
8. Staying Engaged with Askeland Solution Manual Polymers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Askeland Solution Manual Polymers
9. Balancing eBooks and Physical Books Askeland Solution Manual Polymers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Askeland Solution Manual Polymers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Askeland Solution Manual Polymers
 - Setting Reading Goals Askeland Solution Manual Polymers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Askeland Solution Manual Polymers
 - Fact-Checking eBook Content of Askeland Solution Manual Polymers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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