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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<sup>3</sup> jumps/s at 400°C when the activation energy for their movement is 30,000 cal/mol. Calculate the jump rate at 750°C.

#### Solution:

Rate = 
$$\frac{5 \times 10^3}{x} = \frac{c \exp[-30,000/(1.987)/(673)]}{c \exp[-30,000/(1.987)/(1023)]} = \exp(-22.434 + 14.759)$$
  
 $\frac{5 \times 10^3}{x} = \exp(-7.675) = 4.64 \times 10^{-4}$   
 $x = \frac{5 \times 10^3}{4.64 \times 10^{-4}} = 1.08 \times 10^9 \text{ jumps/s}$ 

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<sup>-6</sup> at 600°C, determine the fraction of lattice points containing vacancies at 1000°C.

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

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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**Daniela Niemeyer** 



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#### **Table of Contents Askeland Solution Manual**

- 1. Understanding the eBook Askeland Solution Manual
  - The Rise of Digital Reading Askeland Solution Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Askeland 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 Askeland Solution Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Askeland Solution Manual
  - Personalized Recommendations
  - Askeland Solution Manual User Reviews and Ratings
  - Askeland Solution Manual and Bestseller Lists

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