

3.36(a) At energy E_v , we want

$$\frac{\frac{1}{\exp\left(\frac{E_v - E_F}{kT}\right)}}{\frac{1}{1 + \exp\left(\frac{E_v - E_F}{kT}\right)}} = 0.01$$

This expression can be written as

$$\frac{1 + \exp\left(\frac{E_v - E_F}{kT}\right)}{\exp\left(\frac{E_v - E_F}{kT}\right)} - 1 = 0.01$$

$$\Rightarrow 1 = (0.01) \exp\left(\frac{E_v - E_F}{kT}\right)$$

or

$$E_v = E_F + kT \ln(100)$$

Then

$$\underline{E_v = E_F + 4.6kT}$$

(b)

At $E_v = E_F + 4.6kT$,

$$f(E_v) = \frac{1}{1 + \exp\left(\frac{E_v - E_F}{kT}\right)} = \frac{1}{1 + \exp\left(\frac{4.6kT}{kT}\right)}$$

which yields

$$\underline{f(E_v) = 0.00990 = 0.01}$$

3.37(a) $E_F = 6.25 \text{ eV}$, $T = 300 \text{ K}$, At $E = 6.50 \text{ eV}$

$$f(E) = \frac{1}{1 + \exp\left(\frac{6.50 - 6.25}{0.0259}\right)} = 6.43 \times 10^{-7}$$

or

$$\underline{6.43 \times 10^{-5} \%}$$

(b)

$$T = 950 \text{ K} \Rightarrow kT = (0.0259) \left(\frac{950}{300} \right)$$

or

$$kT = 0.0820 \text{ eV}$$

Then

$$f(E) = \frac{1}{1 + \exp\left(\frac{6.50 - 6.25}{0.0820}\right)} = 0.0453$$

or

$$\underline{4.53 \%}$$

$$(c) 1 - 0.01 = \frac{1}{1 + \exp\left(\frac{-0.30}{kT}\right)} = 0.99$$

Then

$$1 + \exp\left(\frac{-0.30}{kT}\right) = \frac{1}{0.99} = 1.0101$$

which can be written as

$$\exp\left(\frac{+0.30}{kT}\right) = \frac{1}{0.0101} = 99$$

Then

$$\frac{0.30}{kT} = \ln(99) \Rightarrow kT = \frac{0.30}{\ln(99)} = 0.06529$$

So

$$\underline{T = 756 \text{ K}}$$

3.38

(a)

$$f(E) = \frac{1}{1 + \exp\left(\frac{7.15 - 7.0}{0.0259}\right)} = 0.00364$$

or

$$\underline{0.364 \%}$$

(b)

$$\text{At } T = 1000 \text{ K} \Rightarrow kT = 0.08633 \text{ eV}$$

Then

$$f(E) = \frac{1}{1 + \exp\left(\frac{7.15 - 7.0}{0.08633}\right)} = 0.1496$$

$$\text{or } \underline{14.96 \%}$$

(c)

$$f(E) = \frac{1}{1 + \exp\left(\frac{6.85 - 7.0}{0.0259}\right)} = 0.997$$

or

$$\underline{99.7 \%}$$

(d)

$$\text{At } E = E_F, f(E) = \frac{1}{2} \text{ for all temperatures.}$$

3.39For $E = E_v$,

$$f(E) = \frac{1}{1 + \exp\left(\frac{E_v - E_F}{kT}\right)} = \exp\left[\frac{-(E_v - E_F)}{kT}\right]$$

Then

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Fabio Cirrito



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Table of Contents Donald Neamen Solution Manual 3rd Edition

1. Understanding the eBook Donald Neamen Solution Manual 3rd Edition
 - The Rise of Digital Reading Donald Neamen Solution Manual 3rd Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Donald Neamen Solution Manual 3rd Edition
 - 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 Donald Neamen Solution Manual 3rd Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Donald Neamen Solution Manual 3rd Edition
 - Personalized Recommendations
 - Donald Neamen Solution Manual 3rd Edition User Reviews and Ratings
 - Donald Neamen Solution Manual 3rd Edition and Bestseller Lists
5. Accessing Donald Neamen Solution Manual 3rd Edition Free and Paid eBooks
 - Donald Neamen Solution Manual 3rd Edition Public Domain eBooks
 - Donald Neamen Solution Manual 3rd Edition eBook Subscription Services
 - Donald Neamen Solution Manual 3rd Edition Budget-Friendly Options
6. Navigating Donald Neamen Solution Manual 3rd Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Donald Neamen Solution Manual 3rd Edition Compatibility with Devices
 - Donald Neamen Solution Manual 3rd Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Donald Neamen Solution Manual 3rd Edition
 - Highlighting and Note-Taking Donald Neamen Solution Manual 3rd Edition
 - Interactive Elements Donald Neamen Solution Manual 3rd Edition
8. Staying Engaged with Donald Neamen Solution Manual 3rd Edition

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Donald Neamen Solution Manual 3rd Edition
- 9. Balancing eBooks and Physical Books Donald Neamen Solution Manual 3rd Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Donald Neamen Solution Manual 3rd Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Donald Neamen Solution Manual 3rd Edition
 - Setting Reading Goals Donald Neamen Solution Manual 3rd Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Donald Neamen Solution Manual 3rd Edition
 - Fact-Checking eBook Content of Donald Neamen Solution Manual 3rd Edition
 - 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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