

The Boltzmann Factor and Partition Functions

PROBLEMS AND SOLUTIONS

3-1. How would you describe an ensemble whose systems are one-liter containers of water at 25°C?

An unlimited number of one-liter containers of water in an essentially infinite heat bath at 298 K.

3-2. Show that Equation 3.8 is equivalent to $f(x+y) = f(x)f(y)$. In this problem, we will prove that $f(x) \propto e^{\alpha x}$. First, take the logarithm of the above equation to obtain

$$\ln f(x+y) = \ln f(x) + \ln f(y)$$

Differentiate both sides with respect to x (keeping y fixed) to get

$$\begin{aligned} \left[\frac{\partial \ln f(x+y)}{\partial x} \right]_y &= \frac{d \ln f(x+y)}{d(x+y)} \left[\frac{\partial(x+y)}{\partial x} \right]_y = \frac{d \ln f(x+y)}{d(x+y)} \\ &= \frac{d \ln f(x)}{dx} \end{aligned}$$

Now differentiate with respect to y (keeping x fixed) and show that

$$\frac{d \ln f(x)}{dx} = \frac{d \ln f(y)}{dy}$$

For this relation to be true for all x and y , each side must equal a constant, say α . Show that

$$f(x) \propto e^{\alpha x} \quad \text{and} \quad f(y) \propto e^{\alpha y}$$

Let $x = E_1 - E_2$ and $y = E_2 - E_3$. Then $x+y = E_1 - E_3$, and we can write Equation 3.8 as $f(x+y) = f(x)f(y)$. Taking the logarithm of this equation gives

$$\begin{aligned} \ln f(x+y) &= \ln [f(x)f(y)] \\ &= \ln f(x) + \ln f(y) \end{aligned}$$

We then differentiate with respect to x and find

$$\begin{aligned} \left[\frac{\partial \ln f(x+y)}{\partial x} \right]_y &= \left[\frac{\partial \ln f(x)}{\partial x} \right]_y + 0 \\ \frac{d \ln f(x+y)}{d(x+y)} \left[\frac{\partial(x+y)}{\partial x} \right]_y &= \frac{d \ln f(x)}{dx} \\ \frac{d \ln f(x+y)}{d(x+y)} &= \frac{d \ln f(x)}{dx} \end{aligned} \tag{1}$$

Mcquarrie Solution Manual

Julia Schneider



Mcquarrie Solution Manual:

This book delves into Mcquarrie Solution Manual. Mcquarrie Solution Manual is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mcquarrie Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Mcquarrie Solution Manual
- Chapter 2: Essential Elements of Mcquarrie Solution Manual
- Chapter 3: Mcquarrie Solution Manual in Everyday Life
- Chapter 4: Mcquarrie Solution Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Mcquarrie Solution Manual. The first chapter will explore what Mcquarrie Solution Manual is, why Mcquarrie Solution Manual is vital, and how to effectively learn about Mcquarrie Solution Manual.
3. In chapter 2, this book will delve into the foundational concepts of Mcquarrie Solution Manual. This chapter will elucidate the essential principles that need to be understood to grasp Mcquarrie Solution Manual in its entirety.
4. In chapter 3, this book will examine the practical applications of Mcquarrie Solution Manual in daily life. The third chapter will showcase real-world examples of how Mcquarrie Solution Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Mcquarrie Solution Manual in specific contexts. This chapter will explore how Mcquarrie Solution Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Mcquarrie Solution Manual. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mcquarrie Solution Manual.

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