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) \u221d e^{xx}. 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

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

Now differentiate with respect to y (keeping a 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 a. Show that

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

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

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

We then differentiate with respect to x and find

$$\left[\frac{\partial \ln f(x+y)}{\partial x}\right]_{f} = \left[\frac{\partial \ln f(x)}{\partial x}\right]_{f} + 0$$

$$\frac{d \ln f(x+y)}{d(x+y)} \left[\frac{\partial (x+y)}{\partial x}\right]_{f} = \frac{d \ln f(x)}{dx}$$

$$\frac{d \ln f(x+y)}{d(x+y)} = \frac{d \ln f(x)}{dx}$$
(1)

Mcquarrie Solution Manual

Anthony S. Fauci



This book delves into Mcquarrie Solution Manual. Mcquarrie Solution Manual is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This 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
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- 4. In chapter 3, this book will examine the practical applications of Mcquarrie Solution Manual in daily life. This chapter will showcase real-world examples of how Mcquarrie Solution Manual can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book 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.
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