## 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<sup>xx</sup>. 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**

**Michael Brown** 



The book delves into Mcquarrie Solution Manual. Mcquarrie Solution Manual is an essential topic that must be grasped by everyone, ranging 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.

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  - Chapter 3: Mcquarrie Solution Manual in Everyday Life
  - Chapter 4: Mcquarrie Solution Manual in Specific Contexts
  - $\circ$  Chapter 5: Conclusion
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