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

Heather Cox, Carole H. McQuarrie



Unveiling the Power of Verbal Art: An Psychological Sojourn through Mcquarrie Solution Manual

In a global inundated with displays and the cacophony of immediate interaction, the profound energy and psychological resonance of verbal artistry frequently diminish into obscurity, eclipsed by the continuous assault of sound and distractions. Yet, set within the lyrical pages of **Mcquarrie Solution Manual**, a captivating work of fictional beauty that pulses with organic thoughts, lies an remarkable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this magical opus instructions viewers on a psychological odyssey, softly exposing the latent possible and profound impact stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is central subjects, dissect their charming publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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