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on considering the physical setup of two systems that can only exchange energy between each other, that are in thermal contact, this is a derivation of temperature.  $U = U$

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SOLUTIONS. K&K 2.1

Part a Suppose  $g(U) = CU^{3N-2}$ , where  $C$  is a constant and  $N$  is the number of particles.

Show that  $U = \frac{3}{2} N \epsilon$ .

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We use the definition of temperature as  $\frac{1}{T} = \left(\frac{\partial S}{\partial U}\right)_N$ .

$N = 1$  (1) So, let's calculate  $\frac{1}{T} = \ln(g) =$

$$3N \ln(U) + \ln(C) \quad (2)$$

Therefore,  $\frac{1}{T} = \frac{\partial S}{\partial U} = 3N \ln(U)$

$$U = 3N \quad (3) \quad \text{So finally,}$$

$$U = 3N \quad (4) \quad \text{Part b}$$

Show that  $\frac{1}{T} = \frac{1}{2U}$ .

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Schroeder's Introduction to Thermal Physics is far more readable, and has a good flow to it.

Kittel and Kroemer is terribly disjointed, never treating any idea thoroughly before it jumps to the next idea, then doubling back three chapters later to continue with the previous idea.

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