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MODEL SYSTEM 2. ENTROPY AND  
TEMPERATURE Thermal Equilibrium.  
EY : 20150821 Based 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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a Suppose  $g(U) = CU^{3N-2}$ , where  $C$  is a  
constant and  $N$  is the number of particles.

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**Solutions**  
Show that  $U = \frac{3}{2} NkT$ . We use the definition of temperature as  $\frac{1}{T} = \left(\frac{\partial S}{\partial U}\right)_N$ . (1) So, let's calculate  $S$ .  $S = \ln(\Omega) = 3N \ln(U) + \ln(C)$  (2) Therefore,  $\frac{1}{T} = \frac{\partial S}{\partial U} = \frac{3N}{U}$  (3) So finally,  $U = \frac{3}{2} NkT$  (4) Part b  
Show that  $\frac{\partial^2 S}{\partial U^2} = -\frac{3N}{U^2}$ .

## KALMAN KNIZHNIK - KITTEL AND KROEMER SOLUTIONS

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.

## Thermal Physics (2nd Edition): Kittel, Charles, Kroemer ...

Thermal Physics by Herbert Kroemer; Charles Kittel. Freeman & Company, W. H., 1980. Hardcover. Acceptable.



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