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Kittel and Kroemer teach thermal physics through the concepts of statistical mechanics and lay a strong foundation in this way of viewing physics. From there they introduce quantities such as the partition function, the free energy, Gibbs energy, entropy and so on. They do not take the engineering approach to thermal physics, such as btu's etc.

Thermal Physics: Amazon.co.uk: Kittel, Charles, Kroemer ...

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Thermal Physics. Charles Kittel. Herbert Kroemer. W. H. Freeman and Company. New York. QC311.5.K52 1980 536 p. 7 ISBN 0-7167-1088-9 1. STATES OF A 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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KALMAN KNIZHNIK - KITTEL AND KROEMER 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 $U = 3/2 N \epsilon$. We use the definition of temperature as $\frac{1}{T} = \left(\frac{\partial \ln g}{\partial U}\right)_N$. (1) So, let's calculate $\frac{1}{T} = \ln(g) = 3N/2 \ln(U) + \ln(C)$ (2) Therefore, $\frac{1}{T} = \frac{3N}{2U}$ (3) So finally, $U = 3/2 N \epsilon$ (4) Part b Show that $\frac{1}{T} = \frac{3N}{2U}$.

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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.

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

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