ERNEST YEUNG - LOS ANGELES

ABSTRACT. These are notes and solutions to Kittle and Kroemer's Thormal Physics. The solutions are (almost) complete: I will continuously add to subsections, before the problems in each chapter, my notes that I write down as I read (and continuously reread).

I am attempting a manifold formulation of the equilibrium states in the oryte of Schotz's Geometrical Methods of Mathematical Physics and will point out how it applies discretly to Thornsal Physics. Other useful references along this avenue of investigation is provided at the very bostom in the references.

Any and all feedback, including negative feedback, is welcomed and you can reach me by email or my wordpress.com blog.

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SECOND EDITION. Thermal Physics. Charles Kittel. Herbert Kroemer. W. H. Freeman and Company. New York. OC311.5.K52 1980 536".7 ISBN 0-7167-1088-9

I. 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. $U = U_1 + U_2$ is constant total energy of 2 systems 1, 2 in thermal contact multiplicity g(N, U) of combined system is

$$g(N, U) = \sum_{U_1 \leq U} g_1(N_1, U_1)g_2(N_2, U - U_1)$$

The "differential" of g(N, U) is

$$dg = \left(\frac{\partial g_1}{\partial U_1}\right)_{N_1} g_2 dU + g_1 \left(\frac{\partial g_2}{\partial U_2}\right)_{N_2} dU_2 = 0$$

EY: 20150821 This step can be made mathematically sensible by considering the exterior derivative d of $g \in C^{\infty}(\Sigma)$, where Σ is the manifold of states of the system, with local coordinates N, U, where U happens to be a global coordinate. Then, consider a curve in Σ s.t. it has no component in $\frac{\partial}{\partial N}$, $\frac{\partial}{\partial N_1}$, and this curve is a "null curve" so that the vector field $X \in X(\Sigma)$ generated by this curve is s.t. dg(X) = 0. With $-dU_1 = dU_2$.

$$\frac{1}{g_1} \left(\frac{\partial g_1}{\partial U_1} \right)_{N_1} = \frac{1}{g_2} \left(\frac{\partial g_2}{\partial U_2} \right)_{N_2} \Longrightarrow \left(\frac{\partial \ln g_1}{\partial U_1} \right)_{N_2} = \left(\frac{\partial \ln g_2}{\partial U_2} \right)_{N_2}$$

Define

$$\sigma(N, U) := \ln g(N, U)$$

Then.

$$\longrightarrow \left(\frac{\partial \sigma_1}{\partial U_1}\right)_{N_1} = \left(\frac{\partial \sigma_2}{\partial U_2}\right)_{N_2}$$

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