Kittel TP (a) Z= E exp [- Es/7] = 1 + exp[- 2/7] FE-7/n2 = -7/n/1+ exp[-2/4]} $G = -\left(\frac{\partial F}{\partial \gamma}\right) = +\ln \left(1 + \exp\left[-\frac{2}{\gamma}\right]^{\frac{1}{\gamma}}\right) + \gamma \left(1 + \exp\left[-\frac{2}{\gamma}\right]^{\frac{1}{\gamma}}\right) + 2 \left($ x (- 2) = 2 (ep [- 2(7]) 7 { 1+exp [- 2/7]} + Inf Item [- E/7] = \(\frac{\epsilon}{1 + \exp[-\frac{\epsilon}{2}]} + \left[\frac{\epsilon}{1 + \exp[-\frac{\epsilon}{2}]} \] From the differential relation U= F+T6, we have U=7/n{1+exp[-2/7]] - 2 exp[-2/7] - 7/n{1+exp[-2/7]} = - 2 exp[- 2/7] Davidson Chens