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**Solutions To Sample Quiz Problems And Assigned Problems**

For A Monatomic Interacting Classical Gas, With Interactions That Only Depend On  
The Particle Co-ordinates, Derive The Maxwell Boltzmann Distribution Of Velocities  
And Show That The Average Kinetic Energy Is Given By  $= 3Nk_B T = 2$ . Solution. See

Eqs. (94,95) Of The Notes. |||||{Quiz Problem 12. Using The Fact That  $E = 2 = K$   
BT2C V Show That  $E = E_0$  is Proportional  $1 = N_1 = 2$ . Solution. See Eqs ... 3th, 2024

### **Solutions To Problems For Part 3 Assigned Problems And ...**

Assigned Problems And Sample Quiz Problems Sample Quiz Problems Quiz Problem  
1. Draw The Phase Diagram Of The Ising Ferromagnet In An Applied Magnetic Eld.  
Indicate The Critical Point. Plot The Magnetization As A Function Of The Applied Eld  
For Three Temperatures  $T < T_c$ . Quiz ... 1th, 2024

### **Problems And Solutions Section 1.4 (problems 1.65 Through ...**

Indicated In Figure P1.70. Calculate The Natural Frequency Of Vibration Of The  
Smaller Pipe (of Radius  $R_1$ ) Rolling Back And Forth Inside The Larger Pipe (of Radius  
 $R$ ). Use The Energy Method And Assume That The Inside Pipe Rolls Without Slipping  
And Has A Mass  $M$ . TRUCKER Truck Bed Small Pipe Large Pipe (a)  $R_1 R O O' A A' B$   
Mg B) Figure P1.70 2th, 2024

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