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## **Mathematics**

Texts In Applied Mathematics 1. Sirovich: Introduction To Applied Mathematics. 2. Wiggins: Introduction To Applied Nonlinear Dynamical Systems And Chaos. 3. Hale/Kocak: Dynamics And Bifurcations. 4. Chorin/Marsden: A Mathematical Introduction To Fluid Mechanics, Third Edition. 5. Hubbard/West: Differential Equations: A Dynamical Systems Approach: Ordinary Differential Equations. Apr 23th, 2024

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Prerequisites: Applied Mathematics 105 (intro To ODEs And PDEs) Or Equivalent; Also Useful: Applied Mathematics 104 (complex Analysis) Or Equivalent. Note: Applied Mathematics 201 And 202 Are Independent Courses, And May Be Taken In Any Order. Sections: The TFs Will Hold Weekly Sections And Have Weekly Office Hours. During The Sections, Apr 22th, 2024

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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 Coordinates, 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  $E = 2 = K_B T C V$  Show That  $E = E_{is}$  Proportional  $1 = N_1 = 2$ . Solution. See Eqs ... Feb 4th, 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 TT C. Quiz ... Jan 3th, 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' A A' B Mg B) Figure P1.70 Apr 4th, 2024

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