Reading and HW #6 $\,$ PHY360 Fall 2016 $\,$ Due FRI 10/28/2016

Reading	Please read Chapter 5 (emphasis on many coupled oscillators) and chapter 6 of the textbook (A.P. French, "Vibrations and Waves").
Problem #1 Normal Modes 3 DOF	Problem 5-14 in French: Characterization of normal modes in system with 3 degrees of freedom (similar to quick sketch done with 3 masses demo in $10/16$ lecture!)
Problem #2 String Theory!	Problem 6-1 in French: Normal modes of a continuous string, harmonic damping.
Problem #3 String Theory!	Problem 6-2 in French: Normal modes of a continuous stringcompare to the discretuum!
Problem #4 LASERS	Problem 6-10 in French: Normal modes of electromagnetic waves in a cavity
Problem #5 Energy in Continuous	Problem 6-11 in French: Energy in oscillating string - partitioning of energy into normal modes!

 ${\bf Systems}$