

Physics 2211: *Matter and Interactions*

Chapter 4 Standards

1. I can use the ball and spring model for solids to determine the diameter of an atom in a solid.
2. I can use the ball and spring model for solids to determine the interatomic spring stiffness for a solid.
3. I can apply Young's Modulus in both macroscopic and microscopic forms to solve problems.
4. I can calculate the sliding or static friction exerted on an object.
5. I know the difference between period, frequency, and angular frequency.
6. I can relate the period/angular frequency of oscillation for horizontal/vertical springs to the spring constant and mass.
7. I can graphically represent the motion of an oscillator given properties of its behavior.
8. I can algebraically represent the motion of an oscillator given properties of its behavior.
9. I can use the ball and spring model for solids to determine the speed of sound in a solid.