READING ASSIGNMENT FOR OCTOBER 25 SECTIONS 8.3, 10.4, AND 10.6

8.3 Springs and Hooke's Law

- Hooke's Law the amount of force needed to stretch a spring increases linearly with *stretching* distance.
- Spring can push or pull depending on whether they are compressed or stretched.
- The spring constant has units N/m.

10.4 Potential Energy

- I know you've already read this many times now, but this time pay special attention the equations for the elastic potential energy.
- I prefer to use the equation $U_{el} = 1/2ks^2$ to stress the fact that we need to use how far the spring has been stretched (or compressed).
- Be careful with the book's assertion that we can set zero potential energy anywhere we like. That's kind of true, but we still need to measure the distance, s, from the unstretched position of the spring.

10.6 - Using the Law of Conservation of Energy

- It's still not time to read the first paragraph here; skip it again.
- Example 10.11 is good for elastic potential energy.