

# READING ASSIGNMENT FOR OCTOBER 16

## SECTIONS 9.4 THROUGH 9.6

### 9.4 Conservation of Momentum

- Conservation - word of the month. It means that some physical quantity can't change its value.
- The total momentum of the *system* can't change. This means more vector addition.

### 9.5 Inelastic Collisions

- The precise meaning of an inelastic collision is hard to give since we haven't discussed energy yet. The book's definition is pretty good though.
- Perfectly Inelastic - When the colliding objects stick to each other. We'll do lots of problems like this since they're slightly easier.

### 9.6 Momentum and Collisions in Two Dimensions

- Lot's of components here, but otherwise the same as the previous examples

### 9.7 Angular Momentum

- Skip this for now. If time permits, we'll come back to it after doing chapters 7 and 8.