

# PHYSICS 151 READING ASSIGNMENT FOR OCTOBER 17 SECTIONS 9.4-9.7

Please notice that this file is two pages long.

## 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.