

PHYSICS 160 READING

ASSIGNMENT FOR MARCH 25

SECTIONS 8.1

8.1 - Momentum and Impulse

- Newton's Second Law can be rewritten in terms of a quantity called the momentum.
- Momentum, $\vec{p} = m\vec{v}$ - How much force needed to change the velocity of an object in a fixed amount of time.
- Impulse, \vec{J} - Hard to define. Let's just leave it as force multiplied by time.
- The impulse-momentum theorem tells us that for any object, the net impulse imparted to that objects is always equal to its change in momentum.
- The impulse-momentum theorem holds for variable as well as constant forces.