

REVIEW

Chapter 9

Impulse

1. A fullback of mass 120 kg traveling at 20.0 m/s collides with another player and comes to rest in 1.5 s. What was the force of the impact?

$$F = \frac{0 - 120 \text{ kg}(20.0 \text{ m/s})}{1.5 \text{ s}} = \boxed{-1600 \text{ N}}$$

Impulse $Ft = m(v_f - v_i)$

2. A golf ball of mass 0.050 kg acquires a speed of 80.0 m/s when hit with a force of $3.0 \times 10^3 \text{ N}$. How long was the club in contact with the ball?

$$t = \frac{0.050 \text{ kg}(80.0 \text{ m/s} - 0)}{3.0 \times 10^3 \text{ N}} = \boxed{0.0013 \text{ s}}$$

Impulse

3. What force, acting for $1.35 \times 10^{-3} \text{ s}$, will change the velocity of a 95-g baseball from 50.0 m/s eastward to 45.0 m/s westward?

$$F = \frac{95 \text{ g} \times \frac{1 \text{ kg}}{1,000 \text{ g}} (-45.0 \text{ m/s} - 50.0 \text{ m/s})}{1.35 \times 10^{-3} \text{ s}} = \boxed{-6700 \text{ N}}$$

(-6,685 N)

Inelastic collision

4. A 65-kg ice skater traveling at 6.0 m/s runs head-on into an 85-kg skater traveling straight forward at 4.5 m/s. At what speed and in what direction do the ice skaters travel if they move together after the collision?

$$m_1 v_1 + m_2 v_2 = (m_1 + m_2) v \quad \oplus \quad \ominus$$

$$v = \frac{65 \text{ kg}(6.0 \text{ m/s}) + 85 \text{ kg}(-4.5 \text{ m/s})}{(65 \text{ kg} + 85 \text{ kg})} = \boxed{\oplus 0.050 \text{ m/s}}$$

(in direction of 65 kg skater)

Elastic collision

5. A 4.0-kg object traveling westward at 25 m/s hits a 15-kg object at rest. The 4.0-kg object bounces eastward at 8.0 m/s. What is the speed and direction of the 15-kg object?

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

$$4.0 \text{ kg}(-25 \text{ m/s}) + 0 = 4.0 \text{ kg}(8.0 \text{ m/s}) + 15 \text{ kg } v$$

$$v = \frac{(-100 \text{ N}\cdot\text{s} - 32.0 \text{ N}\cdot\text{s})}{15 \text{ kg}} = \boxed{-8.8 \text{ m/s in direction of 4.0 kg object or westward}}$$

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