

## Chapter 7 Momentum And Impulse State University Of New

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7.1 The Impulse-Momentum Theorem.  $J = F \cdot t$  & . 7.1 The Impulse-Momentum Theorem. The linear momentum of an object is the product of the object's mass times its velocity.  $p = mv$ . Momentum is a vector quantity and has the same direction as the velocity. kilogram meter/second (kg m/s) DEFINITION OF LINEAR MOMENTUM.

### Chapter 7 Impulse and Momentum

Momentum and Impulse. Multiply both sides of Newton's second law by the time interval over which the force acts: The left side of the equation is impulse, the (average) force acting on an object multiplied by the time interval over which the force acts. How a force changes the motion of an object depends on both the size of the

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Chapter 7 Impulse and Momentum 1. 1) Linear momentum ...  $F \cdot t = \Delta p$  p 4. Impulse-momentum theorem Impulse Change in momentum!  $J = \Delta p = F \cdot t$  p 5. C&J 7.9 A space probe is traveling in outer space with a momentum that has a magnitude of  $7.5 \times 10^7$  kg·m/s. A retrorocket is used to slow down the probe. It applies a force

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Chapter 7 – Momentum and Impulse •A strong force acting for a very brief time producing a rapid acceleration that quickly changes the ball's velocity from downward to upward. •The impulse acting on an object produces a change in momentum of the object that is equal in both magnitude and direction to the impulse •Momentum changes when ...

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Impulse Equation.  $\text{impulse} = F \cdot \Delta t$ . Units: N x s OR kg x m/s. The impulse will be greater if the force is applied for a longer period of time. Impulse-Momentum Theorem.  $\text{mass} \times \text{change in velocity} = \text{force} \times \text{change in time}$ . -Viewed as alternate version of Newton's Second Law. -Force changes velocity.

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momentum. a property of moving things; depends on how fast you are going and the amount of mass you have.  $\text{kg} \cdot \text{m/s}$ . momentum unit. impulse. change in momentum, either the mass or velocity or both change. time. factor in changing momentum; how long a period of time a force acts.  $\text{N} \cdot \text{s}$ .

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Momentum is inertia in motion and impulse is the change in momentum. When does an object have large momentum?

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Linear momentum is a vector quantity that points in the same direction as the velocity. SI Unit of Linear Momentum: kilogram · meter/second = (kg · m/s)  $p = mv$ . Impulse, J. The impulse, J, of a force is the product of the average force and the time interval  $D. t$ .

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Impulse • In order to change the momentum of an object (say, golf ball), a force must be applied • The time rate of change of momentum of an object is equal to the net force acting on it – Gives an alternative statement of Newton's second law –  $(F \cdot t)$  is defined as the impulse – Impulse is a vector quantity, the direction is the same as the direction of the force  $t F p$  or  $a m t v m t p F_{net} i f_{net} :$ )

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