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Chapter 7 Momentum And Impulse

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7.1 The Impulse-Momentum Theorem The impulse of a force is the product of the average force and the time interval during which the force acts. $J = F \cdot t$ & Impulse is a vector quantity and has the same direction as the average force.

Chapter 7 Impulse and Momentum

7.1 The Impulse -Momentum Theorem. Example: A Rain Storm. Rain comes down with a velocity of -15 m/s and hits the roof of a car. The mass of rain per second that strikes the roof of the car is 0.060 kg/s . Assuming that rain comes to rest upon striking the car, find the average force exerted by the rain on the roof. (F) $\int v \, dv = \int a \, dt = v - v_0$

Chapter 7 Impulse and Momentum

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

Chapter 7 Impulse and Momentum

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 ($\text{kg}\cdot\text{m/s}$)
DEFINITION OF LINEAR MOMENTUM . Units? $\text{N}\cdot\text{s}$

Chapter 7 Impulse and Momentum

Chapter 7: Momentum and Impulse - Physics. - For every action, there is an equal and opposite reaction. The size of the forces on the first object equals the size of the force on the second object.

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the greater the impulse exerted on something, the greater the change in momentum. the impulse required to bring an object to a stop and throw it back again is greater than the impulse to just stop the object.

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Description. Chapter 7: Momentum and Impulse 1. When a baseball bat hits the ball, the impulse delivered to the ball is increased by A. "follow through" on the swing. B. rapidly

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stopping the bat after impact. C. letting the bat recoil upon impact.

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Chapter 7: Momentum and Impulse. 1. One form of the proper metric unit for momentum is. A. Nt·sec. B. Kg·m. C. Kg·m/s². D. Joule. 2. Suppose you are out on a frozen lake, where there is no friction.

Chapter 7: Momentum and Impulse

Lesson Plan for Jennifer Lee (12/3) Chapter 7: Linear Momentum and Impulse o Section 7.5: Elastic Collisions in One Dimensions Topics: Conditions for Elastic Collisions to occur Equations for: o Conservation of Momentum (elastic collisions) Why is this relevant? – what is the “law of conservation of momentum”?? o Conservation of Kinetic Energy (elastic collisions) Why is this relevant? – recall the “law of conservation of energy” o Conservation of Total Velocity (within the ...

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Chapter 7, Momentum and Impulse by Ian Page. 9:51. Chapter 7, Example #1 - Ball thrown at a brick wall by Ian Page. 4:23. Chapter 7, Example #2 - Car and van collision (graphical

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Momentum, Impulse and Momentum Change Read from Lesson 1 of the Momentum and Collisions chapter at The Physics Classroom: Frankie Cruciatà Momentum 1. The momentum of an object depends upon the object's _____. Pick two quantities. a. mass - how much stuff it has b.

Day_1_Momentum_HW_1.6.21.docx - Momentum Impulse and ...

Chapter 7 Momentum and Impulse Equations and Symbols $p = mv$ $J = F \Delta t = \Delta p = 0$ $v v m m f-2 1 2 2 1 1 m m x m x m x cm + + =$ where $p =$ momentum $m =$ mass $v =$ velocity $J =$ impulse $F =$ force $\Delta t =$ time interval during which a force acts $x_{cm} =$ position of the center of mass of a system of particles $x_1 =$ position of a mass relative to a chosen origin Ten Homework Problems Chapter 7 Problems 5, 9, 17, 22, 28, 29, 32, 39, 41, 55 DISCUSSION OF SELECTED SECTIONS 7.1 The Impulse - Momentum ...

7-momentum-and-impulse - Chapter 7 Momentum and Impulse ...

Impulse and Momentum. Chapter 7 Impulse and Momentum Bowling Baseball Tennis Soccer Karate Foot ball Golf Impulse, J Momentum, p Hitting a baseball Hitting a baseball Hitting a baseball Hitting a baseball Hitting a baseball

IMPULSE-MOMENTUM THEOREM Derivation of the Impulse-Momentum theorem Hailstones Versus Raindrops Hailstones Versus Raindrops Example Definitions of Terms 7.2 The Principle of Conservation of Linear Momentum EXAMPLE 5 Assembling a Freight Train EXAMPLE 6 Ice Skaters ...

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Chapter 7: Momentum and Impulse 1. When a baseball bat hits the ball, the impulse delivered to the ball is increased by A. “follow through” on the swing. B. rapidly stopping the bat after impact. C. letting the bat recoil upon impact.

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