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## Chapter 7 Momentum And Impulse

7.1 The Impulse-Momentum Theorem.  $\int F \, dt$  & 7.1 The Impulse-Momentum Theorem. The linear momentum of an object is the product of the object's mass times its velocity.  $p = mv$  &  $m$ .

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

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the.

## Chapter 7 Momentum and Impulse

Chapter 7 Impulse and Momentum 1. 1) Linear momentum ...

$F \cdot t = \Delta p$  4. Impulse-momentum theorem Impulse Change in momentum!  $J = \Delta p$  5. C&J 7.9 A space probe is traveling in outer space with a momentum that has a magnitude of  $7.5 \times 10^7$  kg · m/s. A retrorocket is fired 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

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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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Examples

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Chapter 7, Example #2 - Car and van collision (graphical question on ...

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Chapter 7: Momentum and Impulse. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. Jo-Joanna PLUS. Terms in this set (10) D. N · sec. 1. One form of the proper metric unit for momentum is A. Joule. B. Kg · m. C. Kg · m/s<sup>2</sup> D. N · sec. B. Removing a shoe and throwing it away from the shore. 2. Suppose you are out on a ...

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Impulse Equation.  $\text{impulse} = f(\Delta t)$ . Units: N x s OR kg x m/s.

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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) = . 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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CHAPTER 7 Momentum Chapter Outline 7.1 MOMENTUM AND IMPULSE 7.2 CONSERVATION OF MOMENTUM

IN ONE DIMENSION 7.3 REFERENCES This chapter is about momentum and impulse. There are an amazing number of daily activities that involve momentum and impulse. To start an object moving when it is at rest, you must provide an impulse. When an

C 7 Momentum - Nathan Sandberg

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PPT – Chapter 7 Momentum and Impulse PowerPoint ...  
Chapter 7 Momentum . Conceptual Physics . Objectives: The student will be able to:

- Define . momentum.
- Describe . impulse. and how it affects momentum
- Perform calculations of momentum and impulse
- State the law of conservation of momentum
- Distinguish between . elastic. and . inelastic collision.

7.1 Momentum . Momentum is inertia in motion.

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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 –  $(F \quad t)$  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  $a m t v v m t p F_{net} i f_{net} :)$

The bicycle is a common, yet unique mechanical contraption in our world. In spite of this, the bike's physical and mechanical principles are understood by a select few. You do not have to be a genius to

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join this small group of people who understand the physics of cycling. This is your guide to fundamental principles (such as Newton's laws) and the book provides intuitive, basic explanations for the bicycle's behaviour. Each concept is introduced and illustrated with simple, everyday examples. Although cycling is viewed by most as a fun activity, and almost everyone acquires the basic skills at a young age, few understand the laws of nature that give magic to the ride. This is a closer look at some of these fun, exhilarating, and magical aspects of cycling. In the reading, you will also understand other physical principles such as motion, force, energy, power, heat, and temperature.

This open access textbook takes the reader step-by-step through the concepts of mechanics in a clear and detailed manner. Mechanics is

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considered to be the core of physics, where a deep understanding of the concepts is essential in understanding all branches of physics. Many proofs and examples are included to help the reader grasp the fundamentals fully, paving the way to deal with more advanced topics. After solving all of the examples, the reader will have gained a solid foundation in mechanics and the skills to apply the concepts in a variety of situations. The book is useful for undergraduate students majoring in physics and other science and engineering disciplines. It can also be used as a reference for more advanced levels.

Featuring more than five hundred questions from past Regents

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exams with worked out solutions and detailed illustrations, this book is integrated with APlusPhysics.com website, which includes online questions and answer forums, videos, animations, and supplemental problems to help you master Regents Physics Essentials.

Extensively revised from a successful first edition, this book features a wealth of clear illustrations, numerous worked examples, and many problem sets. It provides the quantitative perspective missing from more descriptive texts, without requiring an advanced background in mathematics, and as such will be welcomed for use in courses such as biomechanics and orthopedics, rehabilitation and industrial engineering, and occupational or sports medicine.



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Cutnell and Johnson has been the #1 text in the algebra-based physics market for almost 20 years. The 10th edition brings on new co-authors: David Young and Shane Stadler (both out of LSU). The Cutnell offering now includes enhanced features and functionality. The authors have been extensively involved in the creation and adaptation of valuable resources for the text. This edition includes chapters 1-17.

University Physics, 1/e by Bauer and Westfall is a comprehensive text with rigorous calculus coverage incorporating a consistently used 7-step problem solving method. The authors include a wide variety of everyday contemporary topics as well as research-based discussions. Both are designed to help students appreciate the

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beauty of physics and how physics concepts are related to the development of new technologies in the fields of engineering, medicine, astronomy and more.

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those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later

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courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

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