

Chapter 6 Linear Momentum and Collisions

September 20 Momentum and impulse

6.1 Linear Momentum

Linear momentum: The linear momentum of an object is the product of its mass and velocity: $\mathbf{p} = m\mathbf{v}$.

It is often simply called *momentum*. It measures the quantity of motion of an object.

Momentum is a vector. It is in the direction of the velocity of the object. Its component is

$$p_x = mv_x.$$

The SI unit of momentum is kg·m/s.

The *total linear momentum* of a system is the vector sum of the momenta of each individual objects:

$$\mathbf{P} = \mathbf{p}_1 + \mathbf{p}_2 + \mathbf{p}_3 + \dots + \mathbf{p}_i.$$

Example 6.1: Momentum: Mass and Velocity

Example 6.3: Total Momentum: A Vector Sum

Chapter Linear Momentum And Collisions

Raymond A. Serway, Steven Van Wyk



Chapter Linear Momentum And Collisions:

College Physics Textbook Equity Edition Volume 1 of 3: Chapters 1 - 12 An OER from Textbook Equity, 2014-01-13
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Table of Contents Chapter Linear Momentum And Collisions

1. Understanding the eBook Chapter Linear Momentum And Collisions
 - The Rise of Digital Reading Chapter Linear Momentum And Collisions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter Linear Momentum And Collisions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter Linear Momentum And Collisions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter Linear Momentum And Collisions
 - Personalized Recommendations
 - Chapter Linear Momentum And Collisions User Reviews and Ratings

- Chapter Linear Momentum And Collisions and Bestseller Lists
- 5. Accessing Chapter Linear Momentum And Collisions Free and Paid eBooks
 - Chapter Linear Momentum And Collisions Public Domain eBooks
 - Chapter Linear Momentum And Collisions eBook Subscription Services
 - Chapter Linear Momentum And Collisions Budget-Friendly Options
- 6. Navigating Chapter Linear Momentum And Collisions eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter Linear Momentum And Collisions Compatibility with Devices
 - Chapter Linear Momentum And Collisions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter Linear Momentum And Collisions
 - Highlighting and Note-Taking Chapter Linear Momentum And Collisions
 - Interactive Elements Chapter Linear Momentum And Collisions
- 8. Staying Engaged with Chapter Linear Momentum And Collisions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter Linear Momentum And Collisions
- 9. Balancing eBooks and Physical Books Chapter Linear Momentum And Collisions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter Linear Momentum And Collisions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter Linear Momentum And Collisions
 - Setting Reading Goals Chapter Linear Momentum And Collisions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter Linear Momentum And Collisions
 - Fact-Checking eBook Content of Chapter Linear Momentum And Collisions
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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