

PHYSICS 1

STUDY GUIDE: MOMENTUM & IMPULSE

STUDY GUIDE

MOMENTUM & IMPULSE

Momentum

- The linear momentum of an object or system is its mass times its velocity. The word "momentum" by itself usually refers to linear momentum.
- Momentum is a vector so it has a magnitude and a direction.
- The momentum vector is in the same direction as the velocity vector.
- Linear momentum may seem similar to linear kinetic energy but momentum is a vector while kinetic energy is a scalar quantity, and the equations are different.

Variables		SI Unit
p	momentum	$\frac{\text{kg} \cdot \text{m}}{\text{s}}$
m	mass	kg
v	velocity	$\frac{\text{m}}{\text{s}}$

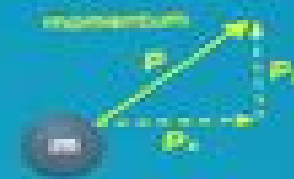
Momentum

$$\vec{p} = m\vec{v}$$

Momentum vector components

$$p_x = mv_x$$

$$p_y = mv_y$$



$$p = 15 \text{ kg} \cdot \text{m/s}$$



$$v = 3 \text{ m/s}$$

5 kg



$$p = 18 \text{ kg} \cdot \text{m/s}$$

$$p_y = 9 \text{ kg} \cdot \text{m/s}$$

$$p_x = 15.6 \text{ kg} \cdot \text{m/s}$$

$$p = (3 \text{ kg})(6 \text{ m/s}) = 18 \text{ kg} \cdot \text{m/s}$$

Study Guide Momentum And Its Conservation Impulse

**David Cordes, Jerry D. Wilson, John
Kinard**



Study Guide Momentum And Its Conservation Impulse:

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Table of Contents Study Guide Momentum And Its Conservation Impulse

1. Understanding the eBook Study Guide Momentum And Its Conservation Impulse
 - The Rise of Digital Reading Study Guide Momentum And Its Conservation Impulse
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Momentum And Its Conservation Impulse
 - 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 Study Guide Momentum And Its Conservation Impulse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Momentum And Its Conservation Impulse
 - Personalized Recommendations
 - Study Guide Momentum And Its Conservation Impulse User Reviews and Ratings
 - Study Guide Momentum And Its Conservation Impulse and Bestseller Lists
5. Accessing Study Guide Momentum And Its Conservation Impulse Free and Paid eBooks
 - Study Guide Momentum And Its Conservation Impulse Public Domain eBooks
 - Study Guide Momentum And Its Conservation Impulse eBook Subscription Services
 - Study Guide Momentum And Its Conservation Impulse Budget-Friendly Options
6. Navigating Study Guide Momentum And Its Conservation Impulse eBook Formats

- ePub, PDF, MOBI, and More
- Study Guide Momentum And Its Conservation Impulse Compatibility with Devices
- Study Guide Momentum And Its Conservation Impulse Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Momentum And Its Conservation Impulse
 - Highlighting and Note-Taking Study Guide Momentum And Its Conservation Impulse
 - Interactive Elements Study Guide Momentum And Its Conservation Impulse
- 8. Staying Engaged with Study Guide Momentum And Its Conservation Impulse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Momentum And Its Conservation Impulse
- 9. Balancing eBooks and Physical Books Study Guide Momentum And Its Conservation Impulse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Momentum And Its Conservation Impulse
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Momentum And Its Conservation Impulse
 - Setting Reading Goals Study Guide Momentum And Its Conservation Impulse
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Momentum And Its Conservation Impulse
 - Fact-Checking eBook Content of Study Guide Momentum And Its Conservation Impulse
 - 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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