

CONSERVATION OF MOMENTUM PRACTICE

PROBLEMS ANSWER KEY

NOTE: For the key below the final answers, where needed, are rounded to two decimal places.

1) To help us sort our data:

Let the goalie be "g"

Let the puck be "p"

Data we know before answering the question:

mass of goalie = 70 kg

mass of the puck = 0.16 kg

initial velocity of goalie = 0 m/s

initial velocity of the puck = 18.0 m/s

mass of puck and goalie after save = 70.16 kg

We can use the following equation to solve this problem:

**Since after time t the goalie and the puck moved together after the goalie catches the puck we treat them as one mass and velocity of the right-hand side of the equation

BEFORE

AFTER

$$(m_1v_{1i}) + (m_2v_{2i}) = (m_1 + m_2)v_{f,ave}$$

$$(70 \text{ kg} \cdot 0 \text{ m/s}) + (0.16 \text{ kg} \cdot 18.0 \text{ m/s}) = (70.16 \text{ kg})v_{f,ave}$$

$$(2.88 \text{ kg} \cdot \text{m/s}) + (0 \text{ kg} \cdot \text{m/s}) = (70.16 \text{ kg})(v_{f,ave})$$

$$\text{Velocity of puck and goalie} = 0.041034635129847 \text{ m/s}$$

The goalie slides with a velocity of 0.04 m/s

2) To help us sort our data:

Let the bullet be "b"

Let the wood be "w"

Data we know before answering the question:

mass of bullet = 0.003 kg

mass of wood block = 4 kg

initial velocity of the wood block = 0 m/s

Final velocity of bullet and wood = 7.0 m/s

mass of wood and embedded bullet = 4.003 kg

We can use the following equation to solve this problem:

**Since after time t the bullet and wood moved together after the bullet hit the wood, we treat them as one mass and velocity of the right-hand side of the equation

BEFORE

AFTER

$$(m_1v_{1i}) + (m_2v_{2i}) = (m_1 + m_2)v_{f,ave}$$

$$(0.003 \text{ kg} \cdot v_{1i}) + (4 \text{ kg} \cdot 0 \text{ m/s}) = (0.003 \text{ kg} + 4 \text{ kg})(7.0 \text{ m/s})$$

$$(0.003 \text{ kg} \cdot v_{1i}) + 0 \text{ m/s} = (4.003 \text{ kg} \cdot \text{m/s})$$

$$v_{1i} = 940.33333333333 \text{ m/s}$$

Initial velocity of bullet = 940.33 m/s

Conservation Of Momentum Practice Problems

JL Elias



Conservation Of Momentum Practice Problems:

Conservation Of Momentum Practice Problems Book Review: Unveiling the Magic of Language

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Table of Contents Conservation Of Momentum Practice Problems

1. Understanding the eBook Conservation Of Momentum Practice Problems
 - The Rise of Digital Reading Conservation Of Momentum Practice Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Conservation Of Momentum Practice Problems
 - 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 a Conservation Of Momentum Practice Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conservation Of Momentum Practice Problems
 - Personalized Recommendations
 - Conservation Of Momentum Practice Problems User Reviews and Ratings
 - Conservation Of Momentum Practice Problems and Bestseller Lists

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