

Holt Physics

Problem 6B**FORCE AND MOMENTUM****PROBLEM**

A student with a mass of 55 kg rides a bicycle with a mass of 11 kg. A net force of 125 N to the east accelerates the bicycle and student during a time interval of 3.0 s. What is the final velocity of the bicycle and student? Assume the student and bicycle are initially at rest.

SOLUTION

Given:

$$m_s = 55 \text{ kg}$$

$$m_b = 11 \text{ kg}$$

$$F = 125 \text{ N to the east}$$

$$\Delta t = 3.0 \text{ s}$$

$$v_i = 0 \text{ m/s}$$

Unknown:

$$v_f = ?$$

Use the impulse-momentum theorem to solve for v_f .

$$F\Delta t = \Delta p = mv_f - mv_i$$

$$v_f = \frac{F\Delta t + mv_i}{m}$$

$$m = m_s + m_b = 55 \text{ kg} + 11 \text{ kg} = 66 \text{ kg}$$

$$v_f = \frac{(125 \text{ N})(3.0 \text{ s}) - (66 \text{ kg})(0 \text{ m/s})}{66 \text{ kg}}$$

$$v_f = \frac{(125 \text{ N})(3.0 \text{ s})}{66 \text{ kg}}$$

$$v_f = \boxed{5.7 \text{ m/s to the east}}$$

ADDITIONAL PRACTICE

1. A net force of 10.0 N to the right pushes a 3.0 kg book across a table. If the force acts on the book for 5.0 s, what is the book's final velocity? Assume the book to be initially at rest.
2. A 60.0 g egg dropped from a window is caught by a student. If the student exerts a net force of -1.5 N over a period of 0.25 s to bring the egg to a stop, what is the egg's initial speed?
3. A child riding a sled is pulled down a snowy hill by a force of 75 N. If the child and sled have a combined mass of 55 kg, what is their speed after 7.5 s? Assume the child and sled are initially at rest.
4. A billiard ball with a mass of 0.195 kg and a velocity of 0.850 m/s to the right is deflected by the cushioned edge of the billiard table. The cushion exerts a force of 3.50 N to the left for 0.0750 s. What is the ball's final velocity?

Holt Physics Appendix Problem Answers

Terry C. Jones



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Table of Contents Holt Physics Appendix Problem Answers

1. Understanding the eBook Holt Physics Appendix Problem Answers
 - The Rise of Digital Reading Holt Physics Appendix Problem Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Appendix Problem Answers
 - 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 Holt Physics Appendix Problem Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Appendix Problem Answers

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

- Fact-Checking eBook Content of Holt Physics Appendix Problem Answers
 - 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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