

Chapter 7 Energy Momentum and Energy



$t = 0 \text{ s}$ $v =$ _____

momentum = _____

$t = 1 \text{ s}$ $v =$ _____

momentum = _____

$t = 2 \text{ s}$ $v =$ _____

momentum = _____

$t = 3 \text{ s}$ $v =$ _____

momentum = _____

$t = 5 \text{ s}$ $v =$ _____

momentum = _____

Show your work and include units!

Bronco Brown wants to put $Ft = \Delta mv$ to the test and try bungee jumping. Bronco leaps from a high cliff and experiences 3 s of free fall. Then the bungee cord begins to stretch, reducing his speed to zero in 2 s. Fortunately, the cord stretches to its maximum length just short of the ground below.

Fill in the blanks:

Bronco's mass is 100 kg.

Acceleration of free fall is 10 m/s^2 .

Express values in SI units (distance in m, velocity in m/s, momentum in kg·m/s, impulse in N·s, and deceleration in m/s^2).

$$d = \frac{1}{2} at^2$$

The 3-s free-fall distance of Bronco just before the bungee cord begins to stretch = _____

Δmv during the 0 to 3-s interval of free fall = _____

Δmv during the 3 to 5-s of slowing down = _____

Impulse during the 3 to 5-s of slowing down = _____

Average force exerted by the cord during the 3 to 5-s interval of slowing down = _____

How about work and energy? How much KE does Bronco have 3 s after he first jumps?

How much does gravitational PE decrease during this 3 s?

What two kinds of PE are changing during the 3 to 5-s slowing-down interval?

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Table of Contents Conceptual Physics Practice Page Chapter 7 Momentum

1. Understanding the eBook Conceptual Physics Practice Page Chapter 7 Momentum
 - The Rise of Digital Reading Conceptual Physics Practice Page Chapter 7 Momentum
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Practice Page Chapter 7 Momentum
 - 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 Conceptual Physics Practice Page Chapter 7 Momentum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Practice Page Chapter 7 Momentum
 - Personalized Recommendations
 - Conceptual Physics Practice Page Chapter 7 Momentum User Reviews and Ratings
 - Conceptual Physics Practice Page Chapter 7 Momentum and Bestseller Lists
5. Accessing Conceptual Physics Practice Page Chapter 7 Momentum Free and Paid eBooks

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