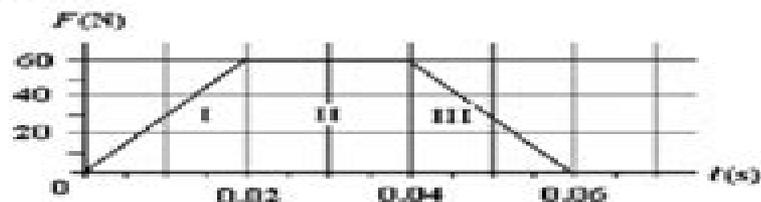


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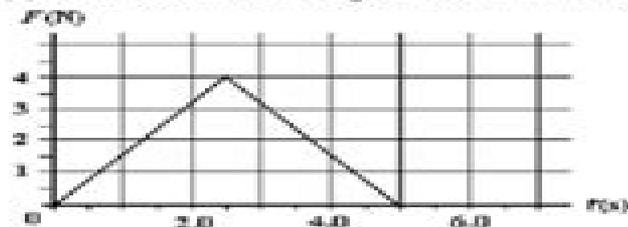
Short Answer

1. What is the momentum of a 1000 kg car moving at 15 m/s [E]?
2. Calculate the momentum of each of the following objects.
 - (a) a 0.50 kg ball thrown upward with a velocity of 30 m/s
 - (b) a 2000 kg railway car moving south at 10 m/s
 - (c) an electron of mass 9.1×10^{-31} kg, moving at a velocity of 1.0×10^7 m/s
 - (d) the Earth, of mass 6.0×10^{24} kg, moving along its solar orbit with a velocity of 3.0×10^4 m/s.
3. The momentum of a 7.3 kg shot is 22 kg·m/s [forward]. What is its velocity?
4. A bullet travelling at 900 m/s has a momentum of 4.5 kg·m/s. What is its mass?
5. What is the impulse given to a golf ball by a club if they are in contact for 0.0050 s, during which the club exerts an average force of 500 N on the ball?
6. The graph below approximates the force applied to a tennis ball by a racket during the time they are in contact.



What impulse does the ball receive from the racket?

7. What impulse is exerted in each of the following cases?
 - (a) a force of 25 N [E] on a dynamics cart for 3.2 s
 - (b) a hockey stick exerting a force of 120 N on a puck during the 0.05 s they are in contact
 - (c) the Earth pulling down on a 12 kg rock during the 3.0 s it takes to fall from a cliff
 - (d) a billiard ball bouncing off a cushion, if the force-time graph of the collision appears as below



- (e) a collision between a toy car and a brick wall, if the force-time graph of the collision appears as below

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Lei Huang



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Physics at SuperLEAR C. Amsler, D. Urner, 1992-04-23 Physics at SuperLEAR contains the invited and contributed papers given at a workshop on low energy proton antiproton annihilation physics The papers cover sources detectors theory and experimental results with some assessment of the future The workshop was held at the Physics Institute of the University of Zurich from October 9 to 12 1991 **Study Guide with ActivPhysics** Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 **Cornell University Courses of Study** Cornell University, 2004 **Engineering** ,1925 **The Teachers' Aid** ,1892 *Flight and the Aircraft Engineer* ,1913 *Towards Experimental Realization of Backward Scattering Finite-energy Sum Rules* Larry Kenneth Cohen, 1974 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 **The Astrophysical Journal** ,1920 Letters to the Editor issued as Part 2 and separately paged from v 148 1967 Beginning in 2009 the Letters published only online **Flight** ,1912 *High Energy Physics Index* ,1990 The Engineer ,1883 **Nature** Sir Norman Lockyer, 1907 New York School Journal ,1895 **The Michigan Architect and Engineer** ,1929 **Scientific American** ,1886 *Marine Engineer and Motorship Builder* ,1892 **The School Journal** ,1895 **Energy Research Abstracts** ,1986 **Irrigation & Power Abstracts** ,1976

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Table of Contents Momentum Energy Extra Study Questions

1. Understanding the eBook Momentum Energy Extra Study Questions
 - The Rise of Digital Reading Momentum Energy Extra Study Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Momentum Energy Extra Study Questions
 - 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 Momentum Energy Extra Study Questions
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Momentum Energy Extra Study Questions
 - Fact-Checking eBook Content of Momentum Energy Extra Study Questions
 - 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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