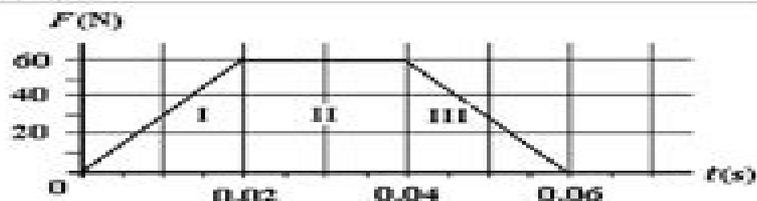


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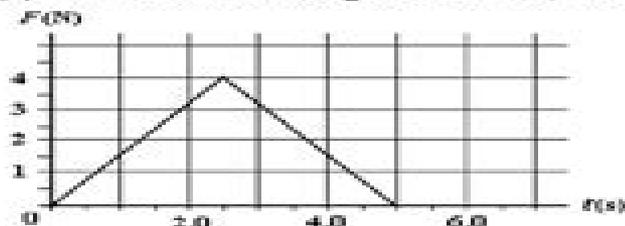
Short Answer

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

Momentum Energy Extra Study Questions

Shasha Hu



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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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