

CHAPTER 7 | *IMPULSE AND MOMENTUM*

ANSWERS TO FOCUS ON CONCEPTS QUESTIONS

- (b) Kinetic energy, $\frac{1}{2}mv^2$, is a scalar quantity and is the same for both cars. Momentum, mv , is a vector quantity that has a magnitude and a direction. The two cars have different directions, so they have different momenta.
- (d) Momentum is a vector quantity that has a magnitude and a direction. The magnitudes (m_0v_0) and directions (due north) are the same for both runners.
- The magnitude of the total momentum is $47\,700\text{ kg}\cdot\text{m/s}$.
- (d) According to the impulse-momentum theorem, the impulse is equal to the final momentum minus the initial momentum. Therefore, the impulses are the same in both cases, since the final momenta are the same and the initial momenta are the same. The impulse is also the product of the net average force and the time of impact. Since the impulses are equal and the time of impact is larger for the air mattress than for the ground, the air mattress exerts a smaller net average force on the high jumper.
- The impulse is $+324\text{ kg}\cdot\text{m/s}$.
- (c) According to the impulse-momentum theorem, the impulse is equal to the change in the particle's momentum. The magnitude of the momentum change is the same in regions A and C; therefore, in these regions the particle experiences impulses of the same magnitude. The momentum in region B is constant. Therefore, the change in momentum is zero, and so is the impulse.
- (b) According to the impulse-momentum theorem, the net average force is equal to the change in the particle's momentum divided by the time interval. This ratio is greatest in region C. The ratio is equal to zero in region B, since the change in the particle's momentum is zero there.
- Magnitude of net average force in Region A = 1.0 N ,
Magnitude of net average force in Region C = 4.0 N
- (d) Since there are no external forces acting on the rocket, momentum is conserved before, during, and after the separation. This means that the momentum of the rocket before the separation ($+150\,000\text{ kg}\cdot\text{m/s}$) is equal to the sum of the momenta of the two stages after the separation [$+250\,000\text{ kg}\cdot\text{m/s} + (-100\,000\text{ kg}\cdot\text{m/s}) = +150\,000\text{ kg}\cdot\text{m/s}$].

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R Bogdan



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Development of Concepts of Physics Arnold B. Arons, 1965 *Physics* Physical Science Study Committee, 1965
Resources in Education ,1984 **Mathematics Teaching** ,1964 *Physics* John D. Cutnell, 2004 *Unified Technical Concepts* Center for Occupational Research and Development (U.S.), 1990 This textbook is a course of instruction for technicians at the postsecondary level It presents technical principles in a manner that makes them readily understood and applicable in different technologies mechanical fluid electrical thermal and combinations It blends basic technical principles with laboratory practice that involves realistic devices used by technicians in their everyday work *Principles of physical Science* ,1971 **Technology for Large Space Systems** ,1980 *Selected Works of Emil Wolf* Emil Wolf, 2001 This invaluable book presents most of the important papers of Emil Wolf published over half a century It covers chiefly diffraction theory especially the analysis of the focal region the theory of direct and inverse scattering phase space methods in quantum mechanics the foundation of radiometry phase conjugation and coherence theory Several papers which have become classics of the optical literature are included such as those on Wolf s rigorous formulation of the theory of partial coherence and partial polarization the introduction of diffraction tomography and his discovery of correlation induced shifts of spectral lines often called the Wolf effect There are also papers dealing with the historical development of optics and some review articles *Resources in Education* ,1984 **Dissertation Abstracts** ,1966 Abstracts of dissertations and monographs in microform *Aero/space Engineering* ,1961 *American Education* ,1902 **Basic Concepts in Relativity and Early Quantum Theory** Robert Resnick, David Halliday, 1992 This book covers basic concepts in relativity quantum theory using a large varied set of worked examples questions and problems to illustrate key concepts Relevant historical philosophical and biographical information is included **History of the Development of the Doctrine of the Person of Christ** Isaak August Dorner, 1878 **The Catholic Periodical and Literature Index** ,2006 **Engineering** ,1924 *Science* ,1916 *El-Hi Textbooks and Serials in Print* ,2003 **The Education Index** ,1985

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