

## CHAPTER 7 | *IMPULSE AND MOMENTUM*

### *ANSWERS TO FOCUS ON CONCEPTS QUESTIONS*

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- (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 kg · 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 kg · 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 kg·m/s) is equal to the sum of the momenta of the two stages after the separation [+250 000 kg·m/s + (− 100 000 kg·m/s) = +150 000 kg·m/s].

# Concept Development Chapter 7 Momentum Answers

**G Orfield**



## **Concept Development Chapter 7 Momentum Answers:**

**Physics** John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution *Physics Physical Science Study Committee, 1965*

**Quantum Mechanics** Jasprit Singh, 2008-11-20 Explore the relationship between quantum mechanics and information age applications This volume takes an altogether unique approach to quantum mechanics Providing an in depth exposition of quantum mechanics fundamentals it shows how these concepts are applied to most of today's information technologies whether they are electronic devices or materials No other text makes this critical essential leap from theory to real world applications The book's lively discussion of the mathematics involved fits right in with contemporary multidisciplinary trends in education Once the basic formulation has been derived in a given chapter the connection to important technological problems is summarily described A book for the information age Quantum Mechanics Fundamentals and Applications to Technology promises to become a standard in departments of electrical engineering applied physics and materials science as well as physics It is an excellent text for senior undergraduate and graduate students and a helpful reference for practicing scientists engineers and chemists in the semiconductor and electronic industries

**Momentum**, 1985

**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 Contents Diffraction Radiation Theory and String Excitations Coherence and Statistical Optics Scattering Foundations of Radiometry Articles of Historical Interest Analyticity Causality and Dispersion Relations Scientists Who Created the World of Optics The Development of Optical Coherence Theory Recollections Commencement Remarks Publications of Emil Wolf Readership Physicists and engineers particularly optical scientists and optical engineers

[Fresh Perspectives: Tourism Development 1](#), 2009 Fresh perspectives tourism development 1 is a timely and comprehensive introduction to tourism development in Southern Africa It provides undergraduate students and professionals alike a new and very relevant focus on responsible tourism so that tourism is seen not only as a major industry but also an important developmental tool

**El-Hi Textbooks and Serials in Print**, 2003

**Concepts in Physics** Reuben Benumof,1965      **Applied Mechanics Reviews** ,2001      **The Olympic Games and the Environment** J. Karamichas,2013-01-11 This book examines the environmental credentials of Olympic Host cities and the opportunities afforded by hosting the Games towards the ecological modernization of the host nation by using perspectives offered by environmental sociology It also sets out projections for the environmental legacy of London 2012      *Quantum Geometry* Margaret Prugovecki,2013-03-14 This monograph presents a review and analysis of the main mathematical physical and epistemological difficulties encountered at the foundational level by all the conventional formulations of relativistic quantum theories ranging from relativistic quantum mechanics and quantum field theory in Minkowski space to the various canonical and covariant approaches to quantum gravity It is however primarily devoted to the systematic presentation of a quantum framework meant to deal effectively with these difficulties by reconsidering the foundations of these subjects analyzing their epistemic nature and then developing mathematical tools which are specifically designed for the elimination of all the basic inconsistencies A carefully documented historical survey is included and additional extensive notes containing quotations from original sources are incorporated at the end of each chapter so that the reader will be brought up to date with the very latest developments in quantum field theory in curved spacetime quantum gravity and quantum cosmology The survey further provides a backdrop against which the new foundational and mathematical ideas of the present approach to these subjects can be brought out in sharper relief      **Ecological Psychology** Deborah Du Nann Winter,2003 As an introduction to psychology applied to environmental problems this book is written for the introductory psychology student the environmental studies student and for the layperson who may wonder if psychology has anything useful to say about mounting ecological difficulties The opening chapter outlines the main features of environmental problems and argues that because they have been caused by human behaviours beliefs decisions and values psychology is crucial for finding solutions to them Chapter two discusses some historical contributions in Western intellectual thought to contemporary views about nature Chapters three to seven each examine a particular field or theory in psychology and apply it to a selected environmental problem Chapter eight summarizes and compares these five psychological approaches and analyses where psychology has been and where the author believes it should go in order to make stronger and more potent contributions to solving environmental problems      **Optics News** ,1979 Includes a directory of members in one issue each year      **Test Bank for Zimbardo, Weber and Johnson Psychology, Third Edition** Thomas Land,2000 Psychology Third Edition builds upon the experience and reputations of Phil Zimbardo and Ann Weber with the addition of a new co author Bob Johnson who has a wealth of teaching experience at the community college level This briefer less expensive book presents psychology in a meaningful manageable format that focuses on the key questions and core concepts of psychology Introductory psychology covers such a wide range of topics and issues that it becomes difficult for readers to see the forest for the trees To make key psychological concepts more meaningful the authors found inspiration in a classic chess study This

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