

Assignment 2

Momentum and Collisions

Section One: Momentum and Impulse

Write the letter of the correct answer in the space provided.

- _____ 1. What is the product of an object's mass and its velocity?
 - a. kinetic energy
 - b. momentum
 - c. impulse
 - d. inertia

- _____ 2. What is the following true for greater momentum?
 - a. a 100 kg/bowling ball moving at 100 m/s
 - b. a 10 kg/bowling ball moving at 100 m/s
 - c. a 100 kg/bowling ball moving at 10 m/s
 - d. a 1000 kg/bowling ball moving at 1000 m/s

- _____ 3. How does the momentum of an object change if the object's velocity doubles?
 - a. The momentum doubles.
 - b. The momentum increases by a factor of four.
 - c. The momentum decreases by a factor of two.
 - d. The momentum decreases by a factor of four.

- _____ 4. What are the units of momentum?
 - a. N
 - b. J
 - c. kg/m/s
 - d. kg/m/s²

- _____ 5. What is the following an example the magnitude of the change in momentum?
 - a. rocket and space shuttle
 - b. horse and rider jumping
 - c. horse and jockey
 - d. combination and horse-jockey

- _____ 6. What is the following is true of changes in momentum?
 - a. A small force over a long period a large change in momentum for a long time interval time interval.
 - b. A small force over a long period a large change in momentum for a long time interval time interval.
 - c. A large force over a long period a small change in momentum for a long time interval time interval.
 - d. A small force over a long period a large change in momentum for a long time interval time interval.

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G Thomas



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Holt Physics ,2000-12 Holt Physics Raymond A. Serway,2006 **Physics** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006 *Introduction to Atomic and Molecular Collisions* R. E. Johnson,2012-12-06 In working with graduate students in engineering physics at the University of Virginia on research problems in gas kinetics radiation biology ion materials interactions and upper atmosphere chemistry it became quite apparent that there was no satisfactory text available to these students on atomic and molecular collisions For graduate students in physics and quantum chemistry and researchers in atomic and molecular interactions there are a large number of excellent advanced texts However for students in applied science who require some knowledge and understanding of collision phenomena such texts are of little use These students often have some background in modern physics and or chemistry but lack graduate level course work in quantum mechanics Such students however tend to have a good intuitive grasp of classical mechanics and have been exposed to wave phenomena in some form e g electricity and magnetism acoustics etc Further their requirements in using collision processes and employing models do not generally include the use of formal scattering theory a large fraction of the content of many advanced texts In fact most researchers who work in the area of atomic and molecular collisions tend to pride themselves on their ability to describe results using simple theoretical models based on classical and semiclassical methods *Thinking about Physics* Roger G. Newton,2002-03-24 The author of this text argues that physicists should spend more time thinking about physics If they did he believes they would become even more skilled at doing science **Problems in Thermodynamics and Statistical Physics** Peter T. Landsberg,2014-06-10 Well respected widely used volume presents problems and full solutions related to a wide range of topics in thermodynamics statistical physics statistical mechanics Suitable for undergraduates and graduate students self study reference 1989 edition **Tstgen** Holt Rinehart & Winston,1998-04 Quantum Mechanics Eugen Merzbacher,1998-01-14 Rapid advances in quantum optics atomic physics particle physics and other areas have been driven by fantastic progress in instrumentation especially lasers and computing technology as well as by the ever increasing emphasis on symmetry and information concepts requiring that all physicists receive a thorough grounding in quantum mechanics This book provides a carefully structured and complete exposition of quantum mechanics and illustrates the common threads linking many different phenomena and subfields of physics The Encyclopedia of Physics Robert Besancon,2013-11-11 **Relativity for Scientists and Engineers** Ray Skinner,2014-06-18 An ideal choice for undergraduate students of science and engineering this book presents a thorough exploration of the basic concepts of relativity The treatment provides more than the typical coverage of introductory texts and it offers maximum flexibility since many sections may be used independently in altered order or omitted altogether Numerous problems most with hints and answers make this volume ideal for supplementary reading and self study Nearly 300 diagrams illuminate the three part treatment which examines special relativity in terms of kinematics and introductory dynamics as well as general

relativity Specific topics include the speed of light the relative character of simultaneity the Lorentz transformation the conservation of momentum and energy nuclei and fundamental particles the principle of equivalence and curved space time Einstein s equations and many other topics

Fermilab Lillian Hoddeson, Adrienne W. Kolb, Catherine Westfall, 2009-08-01 Fermi National Accelerator Laboratory located in the western suburbs of Chicago has stood at the frontier of high energy physics for forty years Fermilab is the first history of this laboratory and of its powerful accelerators told from the point of view of the people who built and used them for scientific discovery Focusing on the first two decades of research at Fermilab during the tenure of the laboratory s charismatic first two directors Robert R Wilson and Leon M Lederman the book traces the rise of what they call megascience the collaborative struggle to conduct large scale international experiments in a climate of limited federal funding In the midst of this new climate Fermilab illuminates the growth of the modern research laboratory during the Cold War and captures the drama of human exploration at the cutting edge of science

Holt Science and Technology Holt, Rinehart and Winston Staff, 2001 *Modern Science* Sam S. Blanc, 1963 **Studium** , 1973

Problems in Thermodynamics and Statistical Physics Peter Theodore Landsberg, 1971 **Thermalization of Nuclear Matter in Relativistic Heavy Ion Collisions** Warren Rawson Eldredge, 2000 [American Journal of Physics](#) , 1985 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics

Band Theory and Electronic Properties of Solids John Singleton, 2001-08-30 This textbook attempts to reveal in a quantitative and fairly rigorous fashion how band theory leads to the everyday properties of materials

Physics: A Text for Liberal Arts Students David S. Saxson, 1968 **Physics in Science and Industry** Alan H. Cromer, 1980

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