

PHYSICS 1

STUDY GUIDE:

MOMENTUM & IMPULSE

STUDY GUIDE

MOMENTUM & IMPULSE

Momentum

- The **linear momentum** of an object or system is its mass times its velocity. The **total momentum** by itself usually refers to **linear momentum**.
- Momentum is a **vector** that has a magnitude and a direction.
- The momentum vector is in the same direction as the velocity vector.
- Linear momentum may seem similar to linear kinetic energy but momentum is a vector while kinetic energy is a scalar quantity, and the equations are different.

Variables	SI Units
p momentum	$\text{kg} \cdot \text{m/s}$
m mass	kg
v velocity	m/s

Momentum

$$p = mv$$

Momentum vector components

$$p_x = mv_x$$

$$p_y = mv_y$$



$$p = 15 \text{ kg} \cdot \text{m/s}$$



$$v = 3 \text{ m/s}$$



$$p = 15 \text{ kg} \cdot \text{m/s}$$

$$p_x = 9 \text{ kg} \cdot \text{m/s}$$

$$p_y = 15.6 \text{ kg} \cdot \text{m/s}$$

$$v = (3 \tan 30^\circ \text{ m/s}) = 1.6 \text{ m/s}$$

Study Guide Momentum And Its Conservation Impulse

**David Cordes, Jerry D. Wilson, John
Kinard**

Study Guide Momentum And Its Conservation Impulse:

Student Study Guide to accompany Physics, 10e John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2014-12-30 This is the Student Study Guide to accompany Physics 10th Edition Cutnell and Johnson's Physics has been the 1 text in the algebra based physics market for almost 20 years Physics 10th Edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text The 10th edition includes 160 New Chalkboard videos guided online tutorials in every chapter and vector drawing questions All of these features are designed to encourage students to remain within the WileyPLUS environment as opposed to pursuing the pay for solutions websites that short circuit the learning process

Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed. Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning

Study Guide and Student Solutions Manual Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics The new edition features an unrivaled suite of media and on line resources that enhance the understanding of physics Many new topics have been incorporated such as the Otto cycle lens combinations three phase alternating current and many more New developments and discoveries in physics have been added including the Hubble space telescope age and inflation of the universe and distant planets Modern physics topics are often discussed within the framework of classical physics where appropriate For scientists and engineers who are interested in learning physics

Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A. Williams, 1978 Physics for Scientists and Engineers Study Guide Gene Mosca, Todd Ruskell, 2003-04 Each chapter in this physics study guide contains a description of key ideas potential pitfalls true false questions that test essential definitions and relations questions and answers that require qualitative reasoning and problems and solutions

Fundamentals of Physics, Study Guide Stanley A. Williams, Kenneth Brownstein, Thomas Marcella, 1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and

quantum physics is weaved through the earlier chapters preparing the way for the later chapters **Study Guide to Accompany Buckwalter/Riban College Physics** Marlin Lee Simon,1987 *Physics, , Student Study Guide* John D. Cutnell,Kenneth W. Johnson,1997-09-04 Describes applications in medicine automobile features transportation home entertainment athletics household applications information processing detection devices camera technology and many more Contains numerous discussions and examples that focus on human physiology including muscle forces blood pressure the refraction of light by the eye and many others Study Guide to Accompany Fuller/Fuller/Fuller Physics Thomas C. Campbell,Robert G. Fuller,1978 Study Guide to Accompany Physics, for Scientists and Engineers Raymond A. Serway,1982 This is a custom text designed specifically for PHYS 2425 2426 at Brookhaven College **Study Guide and Student Solutions Manual for Wilson College Physics** David Cordes,Jerry D. Wilson,John Kinard,1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics Student Study Guide & Selected Solutions Manual David D. Reid,2007 **Student Study Guide and Solutions Manual for Gener Al Physics** Morton M. Sternheim,1986 **Study Guide with Computer Exercises to Accompany Physics for Scientsts and Engineers, Second Edition [and] Physics for Scientists and Engineers with Modern Physics, Second Edition** Raymond A. Serway,1986 **Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway** Raymond A. Serway,Steven Van Wyk,1996 Student Study Guide and Solutions Manual Bo Lou,2002-08 Study Guide to Accompany University Physics Harris Benson,1991 *Review Guide for LPN-LVN Pre-entrance Exam* Mary McDonald,2003-11 Contains over 1000 updated practice questions Includes new content for review of all exam areas verbal math and science Study Guide to Accompany Pytel/Kiusalaas Engineering Mechanics, Dynamics Andrew Pytel,Jean Landa Pytel,Jaan Kiusalaas,1995 Study Guide Joseph J. Boyle,Douglas C. Giancoli,1998 2000 2005 State Textbook Adoption Rowan Salisbury

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