

CHAPTER 10-PRACTICE PROBLEMS

1. In simple harmonic motion, the speed is greatest at that point in the cycle when
 - A) the magnitude of the acceleration is a maximum.
 - B) the displacement is a maximum.
 - C) the magnitude of the acceleration is a minimum.
 - D) the potential energy is a maximum.
 - E) the kinetic energy is a minimum.
2. If the amplitude of the motion of a simple harmonic oscillator is doubled, by what factor does the frequency of the oscillator change?
 - A) 2
 - B) 4
 - C) 1
 - D) 1/2
 - E) 1/4
3. If the frequency of the motion of a simple harmonic oscillator is doubled, by what factor does the maximum speed of the oscillator change?
 - A) 2
 - B) 4
 - C) 1
 - D) 1/2
 - E) 1/4
4. If the frequency of the motion of a simple harmonic oscillator is doubled, by what factor does the maximum acceleration of the oscillator change?
 - A) 2
 - B) 4
 - C) 1
 - D) 1/2
 - E) 1/4
5. A mass is attached to a spring and oscillates with a period T . If the mass is doubled, what is the new period?
 - A) $2T$
 - B) $T/2$
 - C) T
 - D) $T\sqrt{2}$
 - E) $T/\sqrt{2}$

College Physics Practice Problems With Solutions

Raymond A. Serway



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Schaum's Outline of Theory and Problems of Applied Physics Arthur Beiser, 2004. Relativity, atomic physics, nuclear physics, elementary particle physics, semiconductors, and superconductors are receiving more attention in introductory physics classes, and are topics Beiser will discuss in this edition. Changes to the structure of the book will be made to improve the flow from chapter to chapter.

Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03-01. The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph.D. programs, yet few exam prep books focus on the test's actual content and unique structure. Recognized as one of the best student resources available, this

tailored guide has been thoroughly updated for the current Physics GRE. It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure. It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test, review their preparedness and identify areas in which further study is needed. Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology, this self contained reference guide will help students achieve their best score.

Active Learning in Secondary and College Science Classrooms Joel Michael, Harold I. Modell, 2003-10-17. The working model for helping the learner to learn presented in this book is relevant to any teaching context but the focus here is on teaching in secondary and college science classrooms. Specifically the goals of the text are to help secondary and college level science faculty examine and redefine their roles in the classroom, define for science teachers a framework for thinking about active learning and the creation of an active learning environment and provide them with the assistance they need to begin building successful active learning environments in their classrooms. *Active Learning in Secondary and College Science Classrooms: A Working Model for Helping the Learner to Learn* is motivated by fundamental changes in education in response to perceptions that students are not adequately acquiring the knowledge and skills necessary to meet current educational and economic goals. The premise of this book is that active learning offers a highly effective approach to meeting the mandate for increased student knowledge, skills and performance. It is a valuable resource for all teacher trainers in science education and high school and college science teachers.

Learning Issues for Intelligent Tutoring Systems Heinz Mandl, Alan Lesgold, 2012-12-06. *Learning Issues for Intelligent Tutoring Systems* arrays the most current and exciting research in this dynamic and growing area of cognitive science. The various contributions address the design and use of instructional systems as well as the important theoretical and practical questions involved in implementing knowledge based systems. This book offers complete and up to date reviews of the major research programs in computer aided instruction and intelligent tutoring systems. *Learning Issues for Intelligent Tutoring Systems* is an important and useful introduction to this rapidly changing field.

Waves and Oscillations R. N. Chaudhuri, 2001. This book explains the various dimensions of waves and oscillations in a simple and systematic manner. It is a unique attempt at presenting a self contained account of the subject with step by step solutions of a large number of problems of different types. The book will be of great help not only to undergraduate students but also to those preparing for various competitive examinations.

Cd+Update+ Contemp College Physics Jones, 2002. Creativity Robert W. Weisberg, 2006-04-28. A name DESCRIPTION PROFESSIONAL CATALOG. The big new trend in psychology is to focus on the positive. Experienced expert on creativity Robert Weisberg has written a new book on the theories of creativity for upper class and graduate level courses and an educated lay readership.

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