

Practice Problems

1.1 Mathematics and Physics
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For each problem, give the rewritten equation you would use and the answer.

1. A lightbulb with a resistance of 50.0 ohms is used in a circuit with a 9.0-volt battery. What is the current through the bulb?

$$I = \frac{V}{R} = \frac{9.0 \text{ volt}}{50.0 \text{ ohms}} = 0.18 \text{ ampere}$$

2. An object with uniform acceleration a , starting from rest, will reach a speed of v in time t according to the formula $v = at$. What is the acceleration of a bicyclist who accelerates from rest to 7 m/s in 4 s?

$$a = \frac{v}{t} = \frac{7 \text{ m/s}}{4 \text{ s}} = 1.75 \text{ m/s}^2$$

3. How long will it take a scooter accelerating at 0.400 m/s^2 to go from rest to a speed of 4.00 m/s?

$$t = \frac{v}{a} = \frac{4.00 \text{ m/s}}{0.400 \text{ m/s}^2} = 10.0 \text{ s}$$

4. The pressure on a surface is equal to the force divided by the area: $P = F/A$. A 53-kg woman exerts a force (weight) of 520 Newtons. If the pressure exerted on the floor is $32,500 \text{ N/m}^2$, what is the area of the soles of her shoes?

$$A = \frac{F}{P} = \frac{520 \text{ N}}{32,500 \text{ N/m}^2} = 0.016 \text{ m}^2$$

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Use dimensional analysis to check your equation before multiplying.

5. How many megahertz is 750 kilohertz?

$$750 \text{ kHz} \left(\frac{1000 \text{ Hz}}{1 \text{ kHz}} \right) \left(\frac{1 \text{ MHz}}{1,000,000 \text{ Hz}} \right) = 0.75 \text{ MHz}$$

6. Convert 5021 centimeters to kilometers.

$$5021 \text{ cm} \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = 5.021 \times 10^{-2} \text{ km}$$

7. How many seconds are in a leap year?

$$366 \text{ days} \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) \left(\frac{60 \text{ min}}{1 \text{ hr}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) = 31,622,400 \text{ s}$$

8. Convert the speed 5.30 m/s to km/h.

$$\left(\frac{5.30 \text{ m}}{1 \text{ s}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) \left(\frac{60 \text{ min}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = 19.08 \text{ km/h}$$

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Solve the following problems.

9. a. $6.201 \text{ cm} + 7.4 \text{ cm} + 0.68 \text{ cm} + 12.0 \text{ cm}$

$$\begin{array}{r} 6.201 \text{ cm} \\ 7.4 \text{ cm} \\ 0.68 \text{ cm} \\ + 12.0 \text{ cm} \\ \hline 26.281 \text{ cm} \\ = 26.3 \text{ cm after rounding} \end{array}$$

- b. $1.6 \text{ km} + 1.62 \text{ m} + 1200 \text{ cm}$

$$\begin{array}{r} 1.6 \text{ km} = 1600 \text{ m} \\ 1.62 \text{ m} = 1.62 \text{ m} \\ 1200 \text{ cm} = + 12 \text{ m} \\ \hline 1613.62 \text{ m} \\ = 1600 \text{ m or } 1.6 \text{ km after rounding} \end{array}$$

10. a. $10.8 \text{ g} - 8.264 \text{ g}$

$$\begin{array}{r} 10.8 \text{ g} \\ - 8.264 \text{ g} \\ \hline 2.536 \text{ g} \\ = 2.5 \text{ g after rounding} \end{array}$$

Physics Principles And Problems Answers Study Guide

Chapter 1

Arshad Iqbal



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Study Guide to Accompany Physics: Principles and Insights Ira Maximilian Freeman, 1973.

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.

Physics James T. Murphy, 1982.

The Physics of Flight Albert Storace, 2023-12-04. The Physics of Flight provides a comprehensive explanatory reference on the basic physics of flight with a clear presentation of the underlying mathematics. It presents a momentum based explanation of lift making no use of Bernoulli's theorem. Misconceptions are disproved such as identifying centrifugal force experienced in an airplane undergoing maneuvers as a fictitious force and not attributing weightlessness during airplane pitch over or experienced in an airplane performing a parabolic flight path to the effects of free fall. This book places particular emphasis on Newton's second law of motion to explain the effects of forces acting on an airplane, the mechanism of lift and the principles of propulsion. This book is intended for undergraduate aviation and aerospace students taking courses in Flight Dynamics, Introduction to Flight and Physics of Flight.

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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 **Study Guide for the Mainstream of Physics** Arthur Beiser, Germaine Beiser, 1962 *Intermediate Physics for Medicine and Biology* Russell K. Hobbie, Bradley J. Roth, 2015-04-15 This classic text has been used in over 20 countries by advanced undergraduate and beginning graduate students in biophysics physiology medical physics neuroscience and biomedical engineering It bridges the gap between an introductory physics course and the application of physics to the life and biomedical sciences Extensively revised and updated the fifth edition incorporates new developments at the interface between physics and biomedicine New coverage includes cyclotrons photodynamic therapy color vision x ray crystallography the electron microscope cochlear implants deep brain stimulation nanomedicine and other topics highlighted in the National Research Council report BIO2010 As with the previous edition the first half of the text is primarily biological physics emphasizing the use of ideas from physics to understand biology and physiology and the second half is primarily medical physics describing the use of physics in medicine for diagnosis mainly imaging and therapy Prior courses in physics and in calculus are assumed *Intermediate Physics for Medicine and Biology* is also ideal for self study and as a reference for workers in medical and biological research Over 850 problems test and enhance the student s understanding and provide additional biological examples A solutions manual is available to instructors Each chapter has an extensive list of references

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