

## Chapter 1

1. **THINK** In this problem we're given the radius of Earth and asked to compute its circumference, surface area, and volume.

**EXPRESS** Assuming Earth to be a sphere of radius

$$R_E = (6.37 \times 10^6 \text{ m})(10^{-3} \text{ km/m}) = 6.37 \times 10^3 \text{ km},$$

we find that the corresponding circumference, surface area, and volume are

$$C = 2\pi R_E, \quad A = 4\pi R_E^2, \quad V = \frac{4\pi}{3} R_E^3.$$

These geometric formulas are given in Appendix E.

**ANALYZE** Using the formulas, we find (a) the circumference to be

$$C = 2\pi R_E = 2\pi(6.37 \times 10^3 \text{ km}) = 4.00 \times 10^4 \text{ km},$$

(b) the surface area to be

$$A = 4\pi R_E^2 = 4\pi(6.37 \times 10^3 \text{ km})^2 = 5.10 \times 10^8 \text{ km}^2,$$

and (c) the volume to be

$$V = \frac{4\pi}{3} R_E^3 = \frac{4\pi}{3} (6.37 \times 10^3 \text{ km})^3 = 1.08 \times 10^{12} \text{ km}^3.$$

**LEARN** From the formulas, we see that  $C \sim R_E$ ,  $A \sim R_E^2$ , and  $V \sim R_E^3$ . The ratios of volume to surface area and surface area to circumference are  $V/A = R_E/3$  and  $A/C = 2R_E$ .

2. The conversion factors are: 1 gry = 1/10 line, 1 line = 1/12 inch, and 1 point = 1/72 inch. The factors imply that

$$1 \text{ gry} = (1/10)(1/12)(72 \text{ points}) = 0.60 \text{ point}.$$

Thus,  $1 \text{ gry}^2 = (0.60 \text{ point})^2 = 0.36 \text{ point}^2$ , which means that  $0.50 \text{ gry}^2 = 0.18 \text{ point}^2$ .

3. The metric prefixes (micro, pico, nano, ...) are given in Table 1.1.2.

# Solution Manual Understanding Physics

**Jerold Touger**



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**Solutions Manual: Understanding Physics Like a Nerd Without Becoming One & More** Kalayu Belay, James Strohaber, 2018-01-15 This solution manual is a companion book written by the authors of Understanding Physics like a Nerd without Becoming One More The character of the book solves the problems that were assigned at the end of each chapter The authors believe their readers will be inspired by the tactics employed by Cassie to tackle the problems based on the lessons she learned from Professor James *Student Solutions Manual to accompany Understanding Physics* Karen Cummings, Priscilla W. Laws, Edward F. Redish, Patrick J. Cooney, J. Richard Christman, 2004-05-21 Work more effectively and check solutions as you go along with the text This Student Solutions Manual is designed for use with Cummings Understanding Physics Its primary purpose is to show readers by example how to solve various types of problems given at the end of each chapter in the text Most of the solutions start from definitions or fundamental relationships and the final equation is derived This technique highlights the fundamentals and at the same time gives readers the opportunity to review the mathematical steps required to obtain a solution The mere plugging of numbers into equations derived in the text is avoided for the most part Readers will learn to examine any assumptions that are made in setting up and solving each problem Using an interactive strategy Understanding Physics provides a hands on introduction to the fundamentals of physics Built on the foundations of Halliday Resnick and Walker s Fundamentals of Physics 6th Edition this text represents the latest methods in physics instruction Incorporating new approaches based on Physics Education Research PER this text is designed for courses that use computer based laboratory tools and promote Activity Based Physics in lectures labs and recitations **Instructor Solutions Manual for Underst Anding Physics** Cummings, 2004-01 **Understanding Physics 1st Edition with Student Solutions Manual Set** Karen Cummings, 2004-07 Work more effectively and check solutions as you go along with the text This Student Solutions Manual is designed for use with Cummings Understanding Physics Its primary purpose is to show readers by example how to solve various types of problems given at the end of each chapter in the text **Understanding Physics** Karen Cummings, 2004-05-07 Built on the foundations of Halliday Resnick and Walker s Fundamentals of Physics Sixth Edition this text is designed to work with interactive learning strategies that are increasingly being used in physics instruction for example microcomputer based labs interactive lectures etc In doing so it incorporates new approaches based upon Physics Education Research PER aligns with courses that use computer based laboratory tools and promotes Activity Based Physics in lectures labs and recitations **Introductory Physics, Instructor Solutions Manual** Jerold Touger, 2005-03-23 *Understanding Physics Instructor Solutions Manual Parts 2, 3, and 4* Cummings, 2003-05-01 *Student Study Guide and Selected Solutions Manual, Volume 2* Bo Lou, 2006-05 **Physics for Scientists and Engineers** Richard Wolfson, Jay M. Pasachoff, 1999 This book emphasizes the conceptual unity of physics while providing a solid approach to help students build problem solving skills Scientifically sound yet lauded by reviewers for

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