

GETTING TO KNOW YOUR *Conceptual Physics* TEXTBOOK

- 1) What is the middle initial of the author?
- 2) Who illustrated the textbook?
- 3) Where did he teach before he retired?
- 4) How many chapters are listed in the Table of Contents? \_\_\_\_\_
- 5) What is the title of Chapter 15?
- 6) What is the scanning electron micrograph of?
- 7) Chapter 29 is divided into \_\_\_\_\_ sections.
- 8) Use the Table of Contents to find what section about the falling moon in Chapter 12: Section \_\_\_\_\_
- 9) Use the Table of Contents to find out how to prepare for a career in physics. What page? \_\_\_\_\_
- 10) What Appendix summarizes the equations of physics? Appendix \_\_\_\_\_
- 11) The earth's magnetic field is discussed in Chapter \_\_\_\_\_ Section \_\_\_\_\_ .
- 12) What does he say the importance of equations on page xi is?
- 13) Who is the author of the book *The Joy of Physics* in Figure 5.7?
- 14) The fuel pump on the space shuttle is amazingly powerful. How long would it take or it to empty a swimming pool? \_\_\_\_\_ seconds
- 15) On page 691, find the nickname (reserved for adults!) of your teacher. \_\_\_\_\_
- 16) Who is pictured on page 373? \_\_\_\_\_ What is his most notable contribution?
- 17) What is the consequences low-speed collisions of molecules in Figure 23.5? \_\_\_\_\_
- 18) What is the equation for relativistic time dilation?  $t =$
- 19) Mr. Hewitt's son, Paul Jr., is adiabatically compressing the air in Figure 24.3. What happens to the air?
- 20) Chapter 5 discusses Newton's 2nd Law of Motion. What makes a roller coaster ride so exhilarating—the speed, or the change in speed (acceleration)?
- 21) In Appendix C—Graphing, study Figure C-7. How long did it take the ball to hit the bottom? \_\_\_\_\_
- 22) What was the ball's speed when it hit the bottom? \_\_\_\_\_
- 23) What tool do physicists use to make graphs? \_\_\_\_\_
- 24) What is a *nucleon*? \_\_\_\_\_ or a \_\_\_\_\_

25) In Chapter 30 on Lenses, the human eye is compared to a camera. What causes the pupil of the eye to look red or pinkish in some flash photographs?

Extra Credit: What school does the author of the lab manual teach at?