

《物理学》

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内容概要

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书籍目录

Preface
1. A World View First Grade On Building a World View Bode's Law Measurements Sizes: Large and Small Summary Key Terms Conceptual Questions Exercises
2. Describing Motion Average Speed Images of Speed Instantaneous Speed Speed with Direction Acceleration A First Look at Falling Objects Free Fall: Making a Rule of Nature Starting with an Initial Velocity A Subtle Point Summary Key Terms Conceptual Questions Exercises
3. Explaining Motion An Early Explanation The Beginnings of Our Modern Explanation Newton's First Law Adding Vectors Newton's Second Law Mass and Weight Weight Free-Body Diagrams Free Fall Revisited Galileo versus Aristotle Friction Newton's Third Law Summary Key Terms Conceptual Questions Exercises
4. Motions in Space
5. Gravity
6. Momentum
7. Energy
8. Rotation
9. Classical Relativity
10. Einstein's Relativity
11. Structure of Matter
12. States of Matter
13. Thermal Energy
14. Available Energy
15. Vibrations and Waves
16. Sound and Music
17. Light
18. Refraction of Light
19. A Model for Light
20. Electricity
21. Electric Current
22. Electromagnetism
23. The Early Atom
24. The Modern Atom
25. The Nucleus
26. Nuclear Energy
27. Elementary Particles
28. Frontiers

章节摘录

版权页：插图： This photograph shows a cluster of galaxies. Each galaxy, a collection of billions of stars, appears small because it is very far from Earth.

2 Physics : Concepts and Practice Physics is the study of the material world. It is a search for patterns, or rules, for the behavior of objects in the universe. This search covers the entire range of material objects, from the smallest known particles-millions of millions of times smaller than a marble-to astronomical objects-millions of millions of times bigger than our Sun. The search also covers the entire span of time, from the primordial fireball to the ultimate fate of the universe. Within this vast realm of space and time, the searchers have one goal; to comprehend the course of events in the whole world-to create a world view.

FIRST GRADE This course could be one of the most challenging experiences that you will ever have-except for first grade. But then you were too young to notice. What happened in first grade?* Well, you learned to read, and that was really difficult. You first had to learn the names of all those weird little squiggles. You had to learn to tell a b from a d from a p. Even though they looked so much alike, you did it, and it even seemed like fun. Then you learned the sounds each letter represented, and that was not easy because the capitals looked different but made the same sound and some letters could have more than one sound. Then one day your teacher put some letters on the board; first, the letter C, and you all knew it could make a "kuh" or "suh" sound ; then the letter A, which had lots of possibilities ; and finally a T, which luckily had only one sound. You tried out several combinations including "kuh-AAH-tuh." Then suddenly someone shouted out in triumph, "That isn't 'kuh-AAH-tuh'! It's a small furry animal with a long skinny tail that says 'meow.'" And your world was never the same again. When your car paused at an eight-sided red sign, you sounded out stop and understood how the drivers knew what to do. You saw the words ice cream on the front of a store and knew you wanted to go in.

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