

Updates

This edition reflects numerous changes from the previous edition to better support educators in meeting national and state standards for teaching physics. Additional changes have been made to address customer concerns regarding a disconnect between the difficulty of example problems and the text itself, and to better improve the scaffolding of section and chapter review questions including updated images, errata corrections, reordered chapters, and new lab activities. A new teaching strategy has been implemented in both the student edition and the teacher edition. Multiple chapters were removed either because their content was covered in other courses or because their content was omitted from competitor texts. Components of this edition may not be compatible with its predecessor.





4th Edition



3rd Edition

Content Updates

- This edition condenses the total number of chapters from 29 to 25.
 - The mathematical concepts covered in Chapter 2 were absorbed into Chapter 1.
 - Chapters discussing Newton's Laws were arranged consecutively.
 - Chapters 9 and 10 were combined into Chapter 8 for a singular chapter on energy.
 - Section 26A on intensity and color was incorporated into Chapter 20 on light and reflection.
- A four-step teaching cycle (engage, instruct, apply, and assess) has been added to both the student and teacher editions.
- Objectives for the course, each chapter, and each lab activity have been added. Section-level objectives were updated to reflect the chapter content.
- Inquiry activities and STEM activities have been added to the lab manual.
- Preassessments, formative assessments, and summative assessments were also added throughout the text.
- Worldview investigations have been added throughout the student edition to provide opportunities for students to do additional research.
- Changes have been made to the structure, organization, and example problems to better prepare students for advanced concepts.

Special Features

- More infographics were added to visually explain physical concepts.
- Boxes addressing ethical issues related to the realm of physics have been added.
- STEM Connection boxes have been added throughout the textbook.
- Multiple mini labs, short hands-on activities, have been added to each chapter.

Textbook Snapshot

