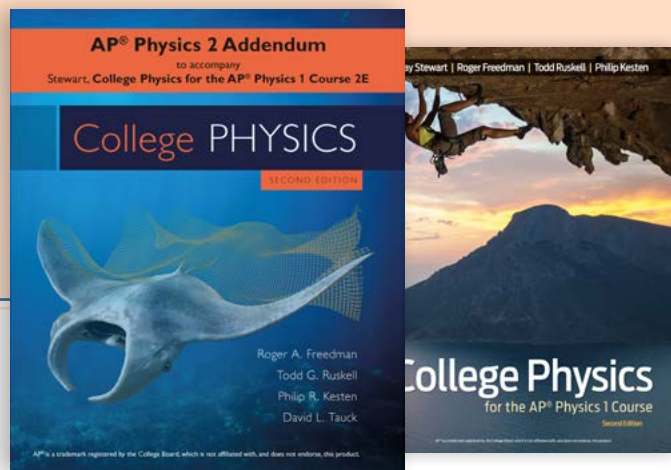


A flexible and affordable approach to teaching AP[®] Physics 2



AP[®] Physics 2 Addendum to accompany Stewart, *College Physics for the AP[®] Physics 1 Course, 2nd edition*

This hardcover addendum consists of the relevant AP[®] Physics 2 content areas - pulled from Freedman's *College Physics*, 2nd edition - and is used in-tandem with Stewart's *College Physics for the AP[®] Physics 1 Course*, 2nd edition, which serves as a foundational text. The addendum includes a detailed correlation for the course, allowing you an accessible and affordable approach to teaching AP[®] Physics 2. It is also available in our SaplingPlus Online-Homework and e-book platform.

Addendum Brief TOC

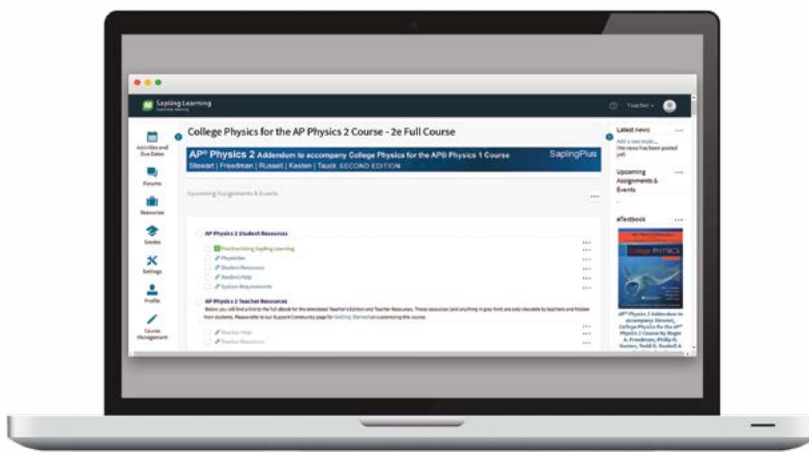
- Chapter 1..... Fluids
- Chapter 2..... Thermodynamics I
- Chapter 3..... Thermodynamics II
- Chapter 4..... Electrostatics I: Electric Charge, Forces, and Fields
- Chapter 5..... Electrostatics II: Electric Potential Energy and Electric Potential
- Chapter 6..... Electric Charges in Motion
- Chapter 7..... Magnetism
- Chapter 8..... Electromagnetic Induction
- Chapter 9..... Electromagnetic Waves
- Chapter 10 .. Wave Properties of Light
- Chapter 11 .. Geometrical Optics
- Chapter 12 .. Relativity
- Chapter 13 .. Quantum Physics and Atomic Structure
- Chapter 14 .. Nuclear Physics

Teacher resources for adopters include:

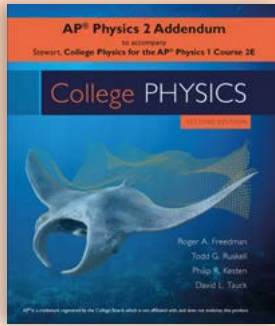
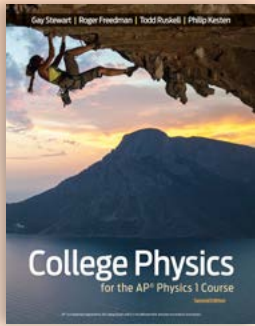
- Student Solutions Manual
- In-Class Activities
- In-Class Activities with Solutions
- Clicker Questions
- Lecture Slides
- Teacher's Solutions Manual
- Student Workbook
- Student Workbook with Answers
- AP[®] Practice Problems

Student resources include:

- Flashcards
 - P-Casts
 - Student Workbook
 - Student Solutions Manual
- (available through SaplingPlus)



To request a sample copy or learn more, visit go.bfwpub.com/Stewart2e or contact your BFW Representative



Example Correlation

AP[®] Physics 2

Unit 1: Fluids

Chapter Recommendations:

- **College Physics AP2 Addendum Chapter 1** Fluids
- **Stewart Chapter 4** Forces and Motion I: Newton's Laws

AP [®] Physics 2, Unit 1: Fluids (College Board CED)	College Physics - Corresponding Sections
1.1 Fluid Systems	1-1 Liquids and gases are both examples of fluids
1.2 Density	1-2 Density measures the amount of mass per unit volume
1.3 Fluids: Pressure and Forces	Stewart 4-1, 4-2, 4-5 1-3 Pressure in a fluid is caused by the impact of molecules
1.4 Fluids and Free-Body Diagrams	Stewart 4-3, 4-4, 4-6
1.5 Buoyancy	1-4 In a fluid at rest pressure increases with increasing depth <ul style="list-style-type: none"> • Hydrostatic Equilibrium • A Uniform-Density Fluid: The Equation of Hydrostatic Equilibrium 1-6 A difference in pressure on opposite sides of an object produces a net force on the object <ul style="list-style-type: none"> • The Lungs 1-7 A pressure increase at one point in a fluid causes a pressure increase throughout the fluid 1-8 Archimedes' principle helps us understand buoyancy <ul style="list-style-type: none"> • Floating: Submarines, Fish, Ships, and Balloons • Apparent Weight
1.6 Conservation of Energy in Fluid Flow	1-10 Bernoulli's equation helps us relate pressure and speed in fluid motion <ul style="list-style-type: none"> • Bernoulli's Equation • Applications of Bernoulli's Principle
1.7 Conservation of Mass Flow Rate in Fluids	1-9 Fluids in motion behave differently depending on the flow speed and the fluid viscosity <ul style="list-style-type: none"> • Steady Flow and Unsteady Flow • Laminar Flow and Turbulent Flow • Viscous Flow and Inviscid Flow • The Equation of Continuity