

List of known corrections to the PHY 232C online lectures

Chapter 21: Electric Potential

Example: Motion in Field and Approaching Plate, slide 3, time~8:40

After: $-5 \times 10^{-4} v_y^2 + 10^{-4} = 0$

This is incorrect: $v_x = \sqrt{4 \times 10^{-4}} = 0.02 m/s$

This is correct: $v_y = \sqrt{\frac{1}{5}} = 0.447 m/s$

Chapter 24: Magnetic Fields

Example: Magnetic Fields by Wires, slide 3 first part

The result for the magnetic field strength is incorrect. The correct magnetic field strength at the coil's center is $B = 5.0 \times 10^{-2} T$

Chapter 26: AC Circuits

Example: Self Inductance RL Circuits, slide 1

The result for the inductance of the solenoid is incorrect. The correct inductance of the solenoid is $L = 1.26 \times 10^{-3} H$

Chapter 18: Ray Optics

Example: Lenses, slide 6 two lenses

The text of the problem incorrectly refers to the first optical element as a converging mirror. This element should be a converging lens.

Chapter 29: Atomic Physics

28.1b: Bohr's theory for hydrogen, slide 6

This slide has an incorrect value for the Bohr radius, a_0 . The correct Bohr radius is:

$$a_0 = 0.0529 \times 10^{-9} m$$