

Errata for The Feynman Lectures on Physics Volume II New Millennium Edition (Newly Reported)

The errors in this list appear in *The Feynman Lectures on Physics: New Millennium Edition* and earlier editions; errors validated by Caltech will be corrected in future printings of the *New Millennium Edition* or in future editions.

Errors are listed in the order of their appearance in the book. Each listing consists of the errant text followed by a brief description of the error, followed by corrected text.

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II:11-3, par 1

The quantity (\hbar^2/me^2) is the radius of the ground-state orbit of a Bohr atom (see Chapter 38, Vol. I) and equals 0.528 angstroms.

Incorrect value (0.528 vs. 0.529).

The quantity (\hbar^2/me^2) is the radius of the ground-state orbit of a Bohr atom (see Chapter 38, Vol. I) and equals 0.529 angstroms.

II:11-3, Eq 11.13

$$\kappa = 1 + (2.69 \times 10^{19})16\pi(0.528 \times 10^{-8})^3 = 1.00020. \quad (11.13)$$

Incorrect value (0.528 vs. 0.529)

$$\kappa = 1 + (2.69 \times 10^{19})16\pi(0.529 \times 10^{-8})^3 = 1.00020. \quad (11.13)$$

II:20-2, par 3

If you will look in Chapter 31 of Vol. I, you will see that Eq. (31.9) there is just the same as the Eq. (20.3) that we have just written down.

Incorrect reference. In the recording of this lecture Feynman says, "*If you would like to com- find - I can remember the equation now. I looked it up. It's in Chap- First Year, Chapter 31, 10.*" In the original 1962 notes for the first year lectures, where Feynman "*looked it up,*" the equation to which Feynman refers appears in the first section of Chapter 31 as Eq. (31.10), however, when the notes were edited to create FLP that section was moved to the end of the previous chapter on *Diffraction*, Chapter 30, where it became Eq. (30.19), preceded by the text "As a final example we shall derive a formula which we shall need for the next chapter on the theory of the index of refraction."

If you will look in Chapter 30 of Vol. I, you will see that Eq. (30.19) there is just the same as the Eq. (20.3) that we have just written down.