

Errata for The Feynman Lectures on Physics Volume I Definitive Edition (third printing)

The errors in this list appear in the 3rd printing of *The Feynman Lectures on Physics: Definitive Edition* (2005) and earlier printings and editions; these errors have been corrected in the 4th printing of the *Definitive Edition* (2006).

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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I:x, par 5

The errata corrected in this edition come from three sources: about 80 per cent are from Michael Gottlieb; most of the rest are from a long list by an anonymous reader, submitted to Feynman in the early 1970s via the publisher; and the remainder are from scattered short lists provided to Feynman or us by various readers.

This is not true of the second printing. A footnote should be added.

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†Based on feedback from interested readers, approximately 340 new errata have been reported in the Lectures since the first printing of the Definitive Edition. Of these errata, approximately 80 have been corrected in the second printing, with more corrections to follow in future printings. A complete list of errata and the names of the contributors are posted at www.feynmanlectures.info.

I:6-10, par 4

The probability density $p(r)$ is given by quantum mechanics. For an undisturbed hydrogen atom $p(r) = Ae^{-r^2/a^2}$, which is a bell-shaped function like that in Fig. 6-8.

Error in physics.

The probability density $p(r)$ is given by quantum mechanics. For an undisturbed hydrogen atom $p(r) = Ae^{-2r/a}$.

I:9-7, par 2

$$a_x(0.1) = 0.480 \times 7.67 = -3.68$$

Wrong sign on product.

$$a_x(0.1) = -0.480 \times 7.67 = -3.68$$

I:9-7, par 2

$$a_y(0.1) = -0.163 \times 7.67 = -1.256$$

Arithmetic error.

$$a_y(0.1) = -0.163 \times 7.67 = -1.250$$

I:9-7, par 2

$$v_y(0.15) = 1.630 - 1.26 \times 0.1 = 1.505$$

Arithmetic error (see correction above).

$$v_y(0.15) = 1.630 - 1.25 \times 0.1 = 1.505$$