

Errata for The Feynman Lectures on Physics Volume II New Millenium (1st printing)

The errors in this list appear in the 1st printing of *The Feynman Lectures on Physics: New Millennium Edition* (2011) and earlier printings and editions; these errors have been corrected in the 2nd hardback printing (and in the 1st paperback printing) of the *New Millennium Edition* (2011).

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.

last updated: 8/28/2011 11:17

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II:11-4, Fig 11-3

The vector label 'd' should be bold (as it is in the text).

II:14-7, Fig 14-6

($R \gg a$ or b .)

Unclear notation in caption.

($R \gg a$ and $R \gg b$.)

II:22-13, par 1

Combining the parallel combinations $z_2 z_0$ and adding the result in series with z_1 , we can immediately write down the impedance of this combination:

Incorrect plural ('combinations' vs. 'combination'), redundant wording ("combining the combination...") and confusing notation (' $z_2 z_0$ ' looks like a multiplication). What Feynman actually said was "It's easy to solve this because z_0 is equal to z_1 plus what I get by adding in parallel z_2 and z_0 ."

Forming the parallel combination of z_2 with z_0 and adding the result in series with z_1 , we can immediately write down the impedance of this circuit:

II:26-10, par 3

If we were flying through it with a horizontal velocity v , then, according to our formula, we should see an electric field which is $\mathbf{v} \times \mathbf{B}$, ...

Vectors should be bold ('v' vs. 'v')

If we were flying through it with a horizontal velocity \mathbf{v} , then, according to our formula, we should see an electric field which is $\mathbf{v} \times \mathbf{B}$, ...

II:26-11, par 4

We know that the momentum is part of a four-vector p_μ whose time component is the energy $m_0 / \sqrt{1 - v^2/c^2}$.

Incorrect statement (missing factor c^2)

We know that the momentum is part of a four-vector p_μ whose time component is the energy $m_0 c^2 / \sqrt{1 - v^2/c^2}$.

II:38-9, Fig 38-12(a)

Radius of curvature indicator arrow R should be extended to NEUTRAL SURFACE.

II:42-4, par 6

This circle is a curve that oscillates up and down with a scallop effect. So its circumference is larger than you would expect from calculating $2\pi r$. So $C/2\pi$ is now less than r . The “excess radius” would be negative.

Notation inconsistent with rest of chapter for the measured radius (r vs. r_{meas}) and incorrect statement.

This circle is a curve that oscillates up and down with a scallop effect. So its circumference is larger than you would expect from calculating $2\pi r_{\text{meas}}$. So $C/2\pi$ is now *greater* than r_{meas} . The “excess radius” would be negative.