Corrections to

Electricity and Magnetism
Third Edition
First Printing
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Please email morin@physics.harvard.edu if you find any errors.

The corrections below are listed by page number. They are grouped into three categories: (1) Important errors that will cause confusion, (2) minor errors that might cause confusion, and (3) trivial errors that should not cause confusion.

Important errors:
(No errors yet)

Minor errors:

46: Problem 1.28(b): \( q/4\pi\varepsilon_0 r \) should be \( q/4\pi\varepsilon_0 r^2 \).

458: 1st line of Problem 9.5(b): \( \nabla \times \mathbf{B} = \partial\mathbf{E}/\partial t \) should be \( \nabla \times \mathbf{B} = \mu_0\varepsilon_0 \partial\mathbf{E}/\partial t \).

576: 3rd line of Problem 11.10: “bound-charge current” should just be “bound current”

582: 6th line of Exercise 11.34: The muon rest energy should be 106 MeV (not 200).

592: 1st and 9th lines after Eq. (12.20): 2.414 should be 3.414. (Eq. (12.20) is correct.)

718: Solution to Problem 7.13(b), last line in 2nd-to-last paragraph: “So \( L \) must be very small.” (not large)

825: (also inside front cover): Avogadro’s number: The power of 10 should be 23, not 13. (But hey, what’s a factor of 10? 46.)

Trivial errors:

10: Eq. (1.8): The force \( \mathbf{F} \) should have a subscript “3”

166: 4th line of Exercise 3.40: “lies” should be “lie”

188: Table 4.1: The \( \sigma \) for germanium (273 K) should have units of \( s^{-1} \), not \( s^1 \)

240: Last line of Footnote 4: The period after “discuss” should be a comma.

325: 3rd line of part (b) of Exercise 6.7: The second \( \omega_1 \) should be \( \omega_2 \).

543: Last equation in Fig 11.13: \( \mathbf{B}_1 \) should be \( \mathbf{B}_1 \), as in Eq. (11.38).

599: 6th line from end of solution to Problem 1.17: “masses” should be “charges”

815: Title of Exercise H.2: “moton” should be “motion”