

Corrections to  
**Electricity and Magnetism**  
**Third Edition**

First Printing

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**Please email [morin@physics.harvard.edu](mailto: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:**

(None yet)

**Minor errors:**

46: Problem 1.28(b):  $q/4\pi\epsilon_0 r$  should be  $q/4\pi\epsilon_0 r^2$ .

99: Fig. 2.40(d): “That is enough to ensure zero divergence.” This statement is being made for the tangential field in the figure. It isn’t true in general; for example, a constant radial field has nonzero divergence.

458: 1st line of Problem 9.5(b):  $\nabla \times \mathbf{B} = \partial\mathbf{E}/\partial t$  should be  $\nabla \times \mathbf{B} = \mu_0\epsilon_0 \partial\mathbf{E}/\partial t$ .

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.)

664: 2nd line on page: “. . . proportional to the radius **squared**, . . .” (The subsequent equation 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  $-23$ . (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  $\text{s}^{-1}$ , not  $\text{s}^1$

- 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  $B_1$ , 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”