Updated: Nov. 25, 2025

Page 16, 2nd line in exercise 1.4
Change: $\mathbf{C} = \hat{\mathbf{x}}17 + \hat{\mathbf{y}}8 - \hat{\mathbf{z}}11$
To: $\mathbf{C} = \hat{\mathbf{x}}17 - \hat{\mathbf{y}}8 - \hat{\mathbf{z}}11$

Page 74, Eq. (2.71)
Change: $\left(\cos\phi\frac{\partial}{\partial r}\right.$
To: $\left(\sin\phi\frac{\partial}{\partial r}\right.$

Page 94, Part (b) of problem 2.30
Replace the line with:
(b) Calculate the divergence of the vector fields **A** and **B**.

Page 203, Eq. (4.121)
Change: $\oint_v$
To: $\int_v$

Page 219, 4th line in Problem 4.20
Change: **(a)** Charge density per unit area on the conductor
To: **(a)** Charge density per unit area on the inner conductor

Page 256, Eq. (5.29)
Change: r'
To: $\hat{\mathbf{r}}$

Page 260, 2nd expression from bottom of page
Change: [V]
To: [C]

Page 395, 1st line in exercise 8.3
Change: cross-sectional
To: cross-section

Page 457, in Eq. (9.71)
Change:) I_2=
To:)I_2=
(No space)

Page 456, in exercise 8.3

Change: cross-sectional
To: cross-section

Page 449, 4th line from top of page
Change: 13.46
To: 134.6

Page 561, Eq. (11.49)
Remove the box around the equation – no need for it.

Page 613 last expression on the page
Change: $\mathcal{P}_{av} = \frac{E_0^2}{2\eta} \left[\frac{\mathrm{W}}{\mathrm{m}^2}\right]$

To: $\mathcal{P}_{av} = \hat{\mathbf{z}}\frac{E_0^2}{2\eta} \left[\frac{\mathrm{W}}{\mathrm{m}^2}\right]$

(note that $\mathcal{P}$ is boldface – a vector)

Page 619 answer to part (a) in Exercise 12.9
Change: $\left[\mathrm{W/m}^2\right]$

To: $\left[\mathrm{kW/m}^2\right]$

Page 664 line above Eq. (13.54
Change: β_{1z}
To: $\beta_1 \mathrm{z}$
(that is, only 1 is in the subscript)

Page 672 in Eq. (13.776)
Change: $-j\beta_1 sin\theta_i$
To: $-j\beta_1 x sin\theta_i$

Page 684, 2nd line in the expression above Exercise 13.10
Change: $\left(-x9\sin x\right)$ two locations

To: $\left(-x5\sin\alpha\right)$ two locations

Page 685, 2nd expression from top of page
Change: 1.67
To: 1.694

Page 756, Figure 14.27
Change: $d_1 = 0.2\ \mathrm{m}$

To: $d_1 = 0.4\ \mathrm{m}$

Change: $d_2 = 0.4 \text{ m}$

To: $d_2 = 0.2 \text{ m}$

Page 877, Eq. (17.132)

Change: $\frac{n\pi}{ba}$

To: $\frac{n\pi}{b}$

Page 926, Eq. (18.33)

Change: $\int_s$

To: $\oint_s$

Page 932, Eq. (18.45)

Change: $\int_s$ (two locations)

To: $\oint_s$ (two locations)

Page 960, 3rd equation from top of page

Change: $\mathbf{E} = -\hat{\theta} \ldots.$

To: $\mathbf{E} = -\hat{\theta} j \ldots.$

(the rest of the expression remains unchanged)

Page 996, answer to Problem 4.20

Change: $\rho_{sb} = \varepsilon_0 V / b \ \ln(b/a)$

To: $\rho_{sb} = \varepsilon_0 V / b \ln(a/b)$

Change: $\rho_{sa} = \varepsilon_0 V / a \ln(a/b)$

To: $\rho_{sa} = -\varepsilon_0 V / a \ln(a/b)$

Page 966, 2nd equation from top of page

Change: $\left| f_5(\theta,\phi,\pi) \right| = \frac{1}{5} \frac{\sin\left(5\pi \sin\theta \cos\phi + 5\pi/2\right)}{\sin\left(\pi \sin\theta \cos\phi + \pi/2\right)}$

To: $\left| f_5(\theta,\phi,\pi) \right| = \frac{1}{5} \frac{\sin\left(5\left(\pi \sin\theta \cos\phi + \pi\right)/2\right)}{\sin\left(\left(\pi \sin\theta \cos\phi + \pi\right)/2\right)}$

Page 966, 3rd equation from top of page

Change: $$\left(\frac{1}{5}\frac{\sin\left(5\pi\sin\theta\cos\phi+5\pi/2\right)}{\sin\left(\pi\sin\theta\cos\phi+\pi/2\right)}\right)^2$$

To: $$\left(\frac{1}{5}\frac{\sin\left(5\left(\pi\sin\theta\cos\phi+\pi\right)/2\right)}{\sin\left(\left(\pi\sin\theta\cos\phi+\pi\right)/2\right)}\right)^2$$

(the rest of the expression remains unchanged)

Page 995, Answer to Problem 3.30

Change: $$\mathbf{E}=\hat{\mathbf{z}}\frac{\rho_s}{2\varepsilon}\left[\text{————}\right]\ \left[\frac{\text{N}}{\text{C}}\right]$$

To: $$\mathbf{F}=\hat{\mathbf{z}}\frac{Q\rho_s}{2\varepsilon}\left[\text{————}\right]\ \left[\text{N}\right]$$

(the expression in brackets remains unchanged)

Page 995, Answer to Problem 3.31(a)
Change

$$\mathbf{E}(z)=\hat{\mathbf{z}}\frac{\rho_v}{2\varepsilon_0}\left(L+\sqrt{\left(L/2\right)^2-Lz+z^2+\left(L/4\right)^2}-\sqrt{\left(L/2\right)^2+Lz+z^2+\left(L/4\right)^2}\right)\quad\left[\frac{\text{N}}{\text{C}}\right]$$

To:

(a) $$\mathbf{E}(z)=\hat{\mathbf{z}}\frac{\rho_z}{2\varepsilon_0}\left(L+\sqrt{\left(\frac{L}{2}\right)^2-Lz+z^2+\left(\frac{L}{4}\right)^2}-\sqrt{\left(\frac{L}{2}\right)^2+Lz+z^2+\left(\frac{L}{4}\right)^2}\right)\ \left[\frac{\text{N}}{\text{C}}\right],$$

$|z| \geq L/2,$

$$\mathbf{E}(z)=\hat{\mathbf{z}}\frac{\rho_v}{2\varepsilon_0}\left[2z+\sqrt{\left(\frac{L}{2}-z\right)^2+\left(\frac{L}{4}\right)^2}-\sqrt{\left(z+\frac{L}{2}\right)^2+\left(\frac{L}{4}\right)^2}\right]\ \left[\frac{\text{N}}{\text{C}}\right],\quad z\leq L/2$$

Page 1004, Answer to Problem 11.7

Change: $t_c = 35.416\times10^{-9}$ s.

To: $$t_c=\frac{\varepsilon}{\sigma}\ \left[\text{s}\right]$$

Page 1005, Answer to Problem 12.26

Change: 1.11 [m]
To: 9.578 [m]
Change: 1.09 [m]
To: 9.43 [m]
Change: 1.71 [m]
To: 14.704 [m]

Page 1008, Answer to Problem 14.14

Change: $V_i = 50$
To: $V_g = 60$
Change: $I_i = 0.2$
To: $I_g = 0.2$

Page 1011, answer to Problem 18.29

Change: $D(\theta) = 1.1376\left(\cos\left(\left(1.5\pi\right)\cos\theta\right)\right)^2$

To: $D(\theta) = 1.1376\left(\cos\left(1.5\pi\cos\theta\right)/\sin\theta\right)^2$