

1. On page 33 the equation in parentheses should have a greater than symbol instead of less than: $n_1 > n_2$.
2. Page 35:
 - a. The equation in the text of the first paragraph should have a positive sign instead of a negative sign: $N_j = n_j + ik_j$
 - b. The last equation on this page should read: $\mathbf{M} = \prod_{j=1}^m \mathbf{M}_j = \mathbf{M}_1 \mathbf{M}_2 \cdots \mathbf{M}_m$
 - c. The last paragraph is replaced with the following new paragraph:

There is a separate characteristic matrix for TE and TM polarization found by inserting the appropriate tilted optical admittance.

3. Page 37:
 - a. Paragraph four should read:
Total irradiance is the time average of the square of the electric field. **In a nonmagnetic, nonabsorbing medium:**
 - b. The last equation should read:

$$I(\mathbf{r}) = \frac{1}{T} \int_{-T/2}^{T/2} \frac{cn\epsilon_0}{2} |E(\mathbf{r}, t)|^2 dt = \frac{cn\epsilon_0}{2} \langle |E(\mathbf{r}, t)|^2 \rangle_T$$

$$= \frac{cn\epsilon_0}{2} \langle E_x^2 + E_y^2 + E_z^2 \rangle_T = I_x(\mathbf{r}) + I_y(\mathbf{r}) + I_z(\mathbf{r})$$

- c. The last paragraph has the following additional sentence added to the end: The factor of $cn\epsilon_{0/2}$ is admittance, converting squared electric field to power per unit area.

4. Page 38:
 - a. The last part of the last sentence in the third paragraph should read:

..., the x-component contribution to the total irradiance **in a nonmagnetic nonabsorbing medium** becomes

- b. The last equation should read:

$$I_x = \frac{cn\epsilon_0}{2} \langle E_x^2 \rangle = \frac{cn\epsilon_0}{2} \langle A_{\Sigma x}^2 \cos^2 \frac{\mathbf{k}_\Delta \cdot \mathbf{r} - \omega_\Delta t + \phi_\Delta}{2} + A_{\Delta x}^2 \sin^2 \frac{\mathbf{k}_\Delta \cdot \mathbf{r} - \omega_\Delta t + \phi_\Delta}{2} \rangle_{\Delta t}$$

$$= \frac{cn\epsilon_0}{4} \left\{ A_{\Sigma x}^2 + A_{\Delta x}^2 + (A_{\Sigma x}^2 - A_{\Delta x}^2) \text{sinc} \frac{\omega_\Delta \Delta t}{2} \cos(\mathbf{k}_\Delta \cdot \mathbf{r} - \omega_\Delta t + \phi_\Delta) \right\}$$

$$= \frac{cn\epsilon_0}{2} \left\{ A_{1x}^2 + A_{2x}^2 + 2\sqrt{A_{1x}^2 A_{2x}^2} \text{sinc} \frac{\omega_\Delta \Delta t}{2} \cos(\mathbf{k}_\Delta \cdot \mathbf{r} - \omega_\Delta t + \phi_\Delta) \right\}$$

$$= I_{1x} + I_{2x} + 2\sqrt{I_{1x} I_{2x}} \text{sinc} \frac{\omega_\Delta \Delta t}{2} \cos(\mathbf{k}_\Delta \cdot \mathbf{r} - \omega_\Delta t + \phi_\Delta)$$

5. On page 39, the second equation should read:

$$\begin{aligned} I &= \frac{cn\epsilon_0}{2} U(z,t)U^*(z,t) \\ &= \frac{cn\epsilon_0}{2} \left[|A_1|^2 + |A_2|^2 + 2|A_1||A_2|\cos(\phi_1 - \phi_2) \right] \\ &= I_1 + I_2 + 2\sqrt{I_1 I_2} \cos\phi_\Delta \end{aligned}$$

6. Page 41:

- a. The first sentence should read:

The field and irradiance **in nonabsorbing, nonmagnetic media** from two **superposed plane waves** with the same frequency but different wavevectors and amplitudes is

- b. The first equation should read:

$$\begin{aligned} \mathbf{U} &= \mathbf{A}_1 e^{i(\mathbf{k}_1 \cdot \mathbf{r} - \omega t + \phi_1)} + \mathbf{A}_2 e^{i(\mathbf{k}_2 \cdot \mathbf{r} - \omega t + \phi_2)} \\ I &= \frac{cn\epsilon_0}{2} \mathbf{U} \cdot \mathbf{U}^* = \frac{cn\epsilon_0}{2} \left[A_1^2 + A_2^2 + 2\mathbf{A}_1 \cdot \mathbf{A}_2 \cos(\mathbf{k}_\Delta \cdot \mathbf{r} + \phi_\Delta) \right] \\ &= I_1 + I_2 + 2\sqrt{I_1 I_2} p_{12} \cos(\mathbf{k}_\Delta \cdot \mathbf{r} + \phi_\Delta) \end{aligned}$$

7. On page 44, in the second figure, θ (theta) should be ϕ (phi).

8. Page 81, the figures are switched.

9. Page 94:

- a. In the three equations, lowercase a should be uppercase A .

$$\begin{aligned} A_v^2 &= \frac{1}{2} \delta(v - v_0 + \Delta v/2) + \frac{1}{2} \delta(v - v_0 - \Delta v/2) \\ V &= \cos\left(\frac{\pi z}{c} \Delta v\right) \end{aligned}$$

$$A_v^2 = \frac{1}{\Delta v} \text{rect}\left(\frac{v - v_0}{\Delta v}\right), \quad V = \frac{\sin(n\pi z \Delta v/c)}{n\pi z \Delta v/c}$$

$$A_v^2 = \frac{1}{\sqrt{\pi/8\Delta v}} e^{-2(v-v_0)^2/(\Delta v/2)^2}, \quad V = e^{-\frac{1}{8}\left(\frac{\pi n \Delta v}{c} z\right)^2}$$

- b. Similarly, the a_v^2 label on the vertical axes in each of the figures should be A_v^2 .