The page numbers refer to the online version of the book posted on the web page:
http://www.ece.rutgers.edu/~orfanidi/ewa/

p.258. Fourth text line from the bottom, instead of, “Using Eq. (7.5.5),”, read, “Using Eq. (7.5.5) with $x n^2$ replaced by $x n^2/n'_2$ in $\rho_{TM}$.”

p.267. Eighth text line from the top, instead of, $D_R = \omega^2 \mu_0 (\sin^2 \theta_c - \sin^2 \theta)$, read, $D_R = \omega^2 \mu_0 \epsilon (\sin^2 \theta_c - \sin^2 \theta)$.

p.282. In paragraph below Eq. (7.14.3), instead of, “is the one the minimizes”, read, “is the one that minimizes”.

p.283. Sixth text line from the bottom, instead of, $A_0 A_0^*$, read, $A_0 A'_0$.

p.285. Sixth text line from the top, instead of, “we write (7.15.2)”, read, “we write (7.15.1)”.

p.287. In Eq. (7.15.15), the factor, $\sin^2 \theta_a$, should be, $\sin \theta_a$.

p.308. Example 8.8.2, uses the values, $n_H = 3$, $n_L = 1.38$, and, $L_L = 0.15$, and also instead of, $[F_1, F_2] = [1.0933, 1.3891]$, read, $[F_1, F_2] = [1.0933, 1.3791]$.

p.350. Third text line below Eq. (9.5.8), instead of sin $kx$, read, sin $kxx$. And, in the last equation below Eq. (9.5.9), the expression for $H_2$ should be corrected to read,

$$H_2 = \frac{1}{\eta_{TM}} E_1 = -\frac{j \omega k_x}{\omega_c k_c} \frac{1}{\eta} E_0$$

p.396. In Eq. (9.11.37), instead of $\sin \theta_c^2$, read, $\sin^2 \theta_c$.

p.600. Replace $\zeta^{-2}$ by $\zeta^{-2}$ in the denominator of the second term of the first equation in Eq. (12.2.1).
p.606. Eq. (12.4.6) should read,
\[
\begin{bmatrix}
a_1(z) \\
a_2(z)
\end{bmatrix}
= e^{-j\beta z}
\begin{bmatrix}
\cos \sigma z - j \frac{\delta}{\sigma} \sin \sigma z & -j \frac{\kappa}{\sigma} \sin \sigma z \\
-j \frac{\kappa}{\sigma} \sin \sigma z & \cos \sigma z + j \frac{\delta}{\sigma} \sin \sigma z
\end{bmatrix}
\begin{bmatrix}
a_1(0) \\
a_2(0)
\end{bmatrix}
\]

p.609. The factor \( U_{12} \) in the numerator of Eq. (12.5.12) should be conjugated, \( U_{12}^* \).

p.650. In the penultimate paragraph of Example 13.11.1, \( X_2 = 1/j\omega C \) and \( X_1 = j\omega L \), should be replaced by, \( X_2 = -1/j\omega C \) and \( X_1 = \omega L \).
And in the last paragraph, \( X_2 = j\omega L \) and \( X_1 = 1/j\omega C \), should be replaced by, \( X_2 = \omega L \) and \( X_1 = -1/j\omega C \).

p.672. In Eq.(14.5.8), the bottom equation should be corrected to read,
\[
\Gamma_{\text{out}} = S_{22} + \frac{S_{12}S_{21} \Gamma_G}{1 - S_{11} \Gamma_G} = \frac{S_{22} - \Delta \Gamma_G}{1 - S_{11} \Gamma_G}
\]
The same correction also applies to Eq.(14.8.1) on p.687.

p.674. The first line of the equation below Eq. (14.5.9) should read,
\[
1 - |\Gamma_{\text{in}}|^2 = 1 - \left| \frac{S_{11} - \Delta \Gamma_G}{1 - S_{22} \Gamma_G} \right|^2 = \frac{|1 - S_{22} \Gamma_G|^2 - |S_{11} - \Delta \Gamma_G|^2}{|1 - S_{22} \Gamma_G|^2}
\]

p.694. In Example 14.10.1, the numerical values of \( Z_G \) and \( Z_L \) should be interchanged, that is,
\[
Z_L = 69.21 + 14.42 j \Omega, \quad Z_G = 23.15 - 24.02 j \Omega
\]

p.698. In second paragraph from the top, instead of “corresponding matched load”, read, “corresponding matched generator”.

p.704. The two-line MATLAB code above Fig. 14.12.2 should read,
\[
g_G = \text{smatch}(S);
F = \text{nfig}(F_{\text{min}}, \text{rn}, \text{gGopt}, \text{gG});
\]

p.723. In lines 3 & 4 below Eq. (15.6.2), the term, \( k_s \hat{z} \), should be changed to, \( k_s \hat{x} \).

p.755. After Eq. (16.7.1), the Boltzmann constant should read, \( k = 1.3806 \times 10^{-23} \text{ W/Hz K} \).

p.765. In the last line of Example 16.8.3, the calculated value of \( G/T \) should be, 24.2082 dB.

p.782. In line 3 from the top, instead of “Appendix F”, read, “Appendix G”.

p.1021. In the text line before Eq (20.22.13), instead of, \( \lambda_0 \leq \lambda_1 \leq \cdots \leq \lambda_M \), read, \( \lambda_0 \geq \lambda_1 \geq \cdots \geq \lambda_M \).

p.1049. In line 1 below Eq. (21.3.3), instead of, \( F_1(\nu, s) \), read, \( F_1(\nu, \sigma) \).

p.1050. Inside the integral of the equation preceding Eq. (21.3.5), instead of, \( e^{j\nu \xi} \), read, \( e^{j\nu \xi} \).

p.1051. In Eq. (21.3.15), instead of, \( f_0(\nu_y, \sigma_a) \), read, \( f_0(\nu_y, \sigma_b) \).
p.1062. In the second equation of Eq. (21.6.5), instead of, ±, read, ∓. And, in the equation below the fourth text paragraph, instead of, $F_{m, 24} = \hat{x} \cdots$, read, $F_{m, 24} = -\hat{x} \cdots$. Moreover, in Eq. (21.6.7), instead of $F_{m, 12}$, read, $F_{m, 13}$.

p.1071. In last line of third paragraph of Section 21.9, instead of, $\hat{x}' = -\hat{z}$, read, $\hat{z}' = -\hat{z}$.

p.1100. Line 2 of Sec. 22.4, instead of “see Fig. 22.3.4”, read, “see Fig. 22.1.1”.

p.1143. The first line of the MATLAB code at the bottom of the page should be,

```
[a, dph] = binomial(0.5, 90, 7);
```

p.1148. Example 23.9.1 shows the case of a 5-element array. The 7-element case corresponds to the following changes in the code, table, and weights,

```
[a, dph] = dolph(0.5, 90, 7, 20);
```

<table>
<thead>
<tr>
<th>$i$</th>
<th>$\chi_i$</th>
<th>$\psi_i$</th>
<th>$Z_i$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.9659</td>
<td>1.0826</td>
<td>0.4691 + 0.8832j</td>
</tr>
<tr>
<td>2</td>
<td>0.7071</td>
<td>1.7852</td>
<td>-0.2127 + 0.9771j</td>
</tr>
<tr>
<td>3</td>
<td>0.2588</td>
<td>2.6782</td>
<td>-0.8945 + 0.4470j</td>
</tr>
<tr>
<td>4</td>
<td>-0.2588</td>
<td>3.6050</td>
<td>-0.8945 - 0.4470j</td>
</tr>
<tr>
<td>5</td>
<td>-0.7071</td>
<td>4.4980</td>
<td>-0.2127 - 0.9771j</td>
</tr>
<tr>
<td>6</td>
<td>-0.9659</td>
<td>5.2006</td>
<td>0.4691 - 0.8832j</td>
</tr>
</tbody>
</table>

$x_0 = 1.1270$, \hspace{1em} $w = [1, 1.2764, 1.6837, 1.8387, 1.6837, 1.2764, 1]$ 

In penultimate line of Example 23.9.2, instead of $R = 20$, read, $R = 25$.

p.1149. Line 4 below the table, instead of $kd < \pi/2$, read, $kd < \pi$.

p.1158. Line 6 above Eq. (23.10.10), instead of $y = \sinh(x)x$, read, $y = \sinh(x)/x$.

Line 2 above Eq. (23.10.11), instead of “is $\psi$-space”, read, “in $\psi$-space”.

p.1168. and p.1169, the MATLAB function, `multbeam`, should be, `multibeam`.

p.1197. Line 5 from bottom, “Then, Eq. (24.9.3)”, should read, “Then, Eq. (24.8.9)”. 

p.1210. In the bottom integral of Eq. (24.12.15), instead of $dy$, read $dz$.

p.1237. Line 2, instead of, Appendix F, read, Appendix G.

Line 4, instead of, range $[-h_1, h_1]$, read, range $[-h_2, h_2]$.

Upper limit of the integral in Eq. (25.3.14) should be $h_2$ instead of $h_1$.

In the equation below Eq. (25.3.14), $u_1$ should read,

```
u_1 = k \left[ \sqrt{d^2 + (h_2 - z_0)^2} + s(h_2 - z_0) \right]
```

Eq. (25.3.16) should be read,

```
\int_{-h_2}^{h_2} F(z) \, dz = \sum_{i=1}^{12} c_i G(z_i, s_i)
```
and the table below it should read,

<table>
<thead>
<tr>
<th></th>
<th>$z_i$</th>
<th>$s_i$</th>
<th>$c_i$</th>
<th></th>
<th>$z_i$</th>
<th>$s_i$</th>
<th>$c_i$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$h_1 - b$</td>
<td>1</td>
<td>$c_1$</td>
<td>7</td>
<td>$h_1 - b$</td>
<td>-1</td>
<td>$c_1^*$</td>
</tr>
<tr>
<td>2</td>
<td>$-h_1 + b$</td>
<td>1</td>
<td>$c_1$</td>
<td>8</td>
<td>$-h_1 + b$</td>
<td>-1</td>
<td>$c_1^*$</td>
</tr>
<tr>
<td>3</td>
<td>$-h_1 - b$</td>
<td>1</td>
<td>$c_1$</td>
<td>9</td>
<td>$-h_1 - b$</td>
<td>-1</td>
<td>$c_1^*$</td>
</tr>
<tr>
<td>4</td>
<td>$h_1 + b$</td>
<td>1</td>
<td>$c_1$</td>
<td>10</td>
<td>$h_1 + b$</td>
<td>-1</td>
<td>$c_1^*$</td>
</tr>
<tr>
<td>5</td>
<td>$b$</td>
<td>1</td>
<td>$-2c_1 \cos kh_1$</td>
<td>11</td>
<td>$b$</td>
<td>-1</td>
<td>$-2c_1^* \cos kh_1$</td>
</tr>
<tr>
<td>6</td>
<td>$-b$</td>
<td>1</td>
<td>$-2c_1 \cos kh_1$</td>
<td>12</td>
<td>$-b$</td>
<td>-1</td>
<td>$-2c_1^* \cos kh_1$</td>
</tr>
</tbody>
</table>

The function `imped2.m` contained in `ewa.zip` has been updated accordingly.

**p.1244.** In the three equations between Eq. (25.5.8) and (25.5.9), $\cos (kh \cos \theta)$, should read, $\cos (kh \cos \theta)$.

**p.1273.** Eq. (D.6) in Appendix D should read,

$$\nabla \times \nabla \times [p \, G(r)] = \frac{2}{3} \, p \, \delta^{(3)}(r) + \left[ (jk + \frac{1}{r}) \frac{3\hat{r} \cdot \mathbf{p} - \mathbf{p}}{r^2} + k^2 \hat{r} \times (\mathbf{p} \times \hat{r}) \right] G(r)$$

**p.1285.** In Eq. (F.28) of Appendix F, the quantity $I(\phi, k\rho)$ should be replaced by $I(\phi)$.