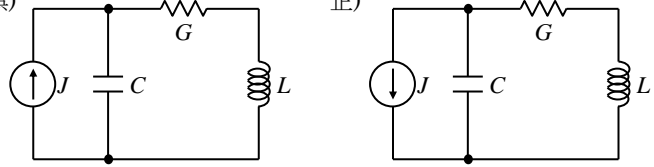


正誤表

1. p.92~p.110 のヘッダー 誤) 6. 交流回路 → 正) 6. 二端子対回路

2. p.74 図 5.6(d)において、電流源の向きが逆 誤)



3. p.100 式(6.44)

誤) $V'_2 = V''_1, I'_2 + I''_1$

正) $V'_2 = V''_1, I'_2 = I''_1$

4. p102 式(6.53)

誤)
$$[F_\pi] = \begin{bmatrix} \frac{1}{Z_{31}} & 0 \\ \frac{1}{Z_{31}} & 1 \end{bmatrix} \begin{bmatrix} 1 & Z_{12} \\ 0 & 1 \end{bmatrix} \begin{bmatrix} \frac{1}{Z_{23}} & 0 \\ \frac{1}{Z_{23}} & 1 \end{bmatrix} = \begin{bmatrix} 1 + \frac{Z_{12}}{Z_{23}} & Z_{12} \\ \frac{1}{Z_{31}} + \frac{Z_{12}}{Z_{23}Z_{31}} & 1 + \frac{Z_{12}}{Z_{31}} \end{bmatrix} \quad (6.53)$$

正)
$$[F_\pi] = \begin{bmatrix} \frac{1}{Z_{31}} & 0 \\ \frac{1}{Z_{31}} & 1 \end{bmatrix} \begin{bmatrix} 1 & Z_{12} \\ 0 & 1 \end{bmatrix} \begin{bmatrix} \frac{1}{Z_{23}} & 0 \\ \frac{1}{Z_{23}} & 1 \end{bmatrix} = \begin{bmatrix} 1 + \frac{Z_{12}}{Z_{23}} & Z_{12} \\ \frac{1}{Z_{31}} + \frac{Z_{12}}{Z_{23}Z_{31}} + \frac{1}{Z_{23}} & 1 + \frac{Z_{12}}{Z_{31}} \end{bmatrix} \quad (6.53)$$

5. p.140 式(7.90)

誤) $V_x = V_l \cos \beta(l-x) - jZ_0 I_l \sin \beta(l-x) \quad (7.90)$

$I_x = -j \frac{V_l}{Z_0} \sin \beta(l-x) + I_l \cos \beta(l-x)$

正) $V_x = V_l \cos \beta(l-x) + jZ_0 I_l \sin \beta(l-x) \quad (7.90)$

$I_x = j \frac{V_l}{Z_0} \sin \beta(l-x) + I_l \cos \beta(l-x)$

6. p145 式(7.106)

誤) $Z_x = \frac{V_x}{I_x} = Z_0 \frac{Z - jZ_0 \tan \beta(l-x)}{-jZ \tan \beta(l-x) + Z_0} \quad (7.106)$ 正) $Z_x = \frac{V_x}{I_x} = Z_0 \frac{Z + jZ_0 \tan \beta(l-x)}{jZ \tan \beta(l-x) + Z_0} \quad (7.106)$

7. p145 式(7.107)

誤) $\frac{V_{\max}}{I_{\min}} = \frac{Z_0 I_{\max}}{I_{\min}} = Z_0 \text{SWR} = Z_0 \frac{Z - jZ_0 \tan \beta(l-x_{\max})}{-jZ \tan \beta(l-x_{\max}) + Z_0} \quad (7.107)$

正) $\frac{V_{\max}}{I_{\min}} = \frac{Z_0 I_{\max}}{I_{\min}} = Z_0 \text{SWR} = Z_0 \frac{Z + jZ_0 \tan \beta(l-x_{\max})}{jZ \tan \beta(l-x_{\max}) + Z_0} \quad (7.107)$

8. p146 式(7.108)

誤) $Z = Z_0 \frac{\text{SWR} + j \tan \beta(l-x_{\max})}{1 + j \text{SWR} \tan \beta(l-x_{\max})} \quad (7.108)$ 正) $Z = Z_0 \frac{\text{SWR} - j \tan \beta(l-x_{\max})}{1 - j \text{SWR} \tan \beta(l-x_{\max})} \quad (7.108)$

9. p146 式(7.109)

誤) $Z = Z_0 \frac{1 + j \text{SWR} \tan \beta(l-x_{\min})}{\text{SWR} + j \tan \beta(l-x_{\min})} \quad (7.109)$ 正) $Z = Z_0 \frac{1 - j \text{SWR} \tan \beta(l-x_{\min})}{\text{SWR} - j \tan \beta(l-x_{\min})} \quad (7.109)$

10. p151 式(A.23)

誤) $\begin{bmatrix} E_p \\ I_1 \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix} \begin{bmatrix} 0 \\ -I_q \end{bmatrix} \quad (A.23)$ 正) $\begin{bmatrix} E_p \\ I_1 \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix} \begin{bmatrix} 0 \\ I_q \end{bmatrix} \quad (A.23)$

11. p160 式(A.88)

誤) $Z_L = \frac{300^2}{200 + j150} = 288 + j216[\Omega] \quad (A.88)$ 正) $Z_L = \frac{300^2}{200 + j150} = 288 - j216[\Omega] \quad (A.88)$