$$V(z) = V_{io} e^{rz} + V_{ro} e^{rz}$$

$$I(z) = \frac{V_{io}}{Z_{o}} e^{rz} - \frac{V_{ro}}{Z_{o}} e^{rz}$$

$$\sum_{z} I_{z} = V_{z} e^{rz} + V_{ro} e^{rz}$$

$$\sum_{z} I_{z} = V_{z} e^{rz} + V_{ro} e^{rz}$$

$$\sum_{z} I_{z} = V_{z} e^{rz} - \frac{V_{ro}}{Z_{o}} e^{rz}$$

$$\sum_{z} I_{z} = V_{z} e^{rz} - \frac{V_{ro}}{Z_{o}} e^{rz}$$

$$\begin{cases} V_{io} = \frac{I_{L}}{2} (z_{L} + z_{o}) e^{rL} \\ V_{ro} = \frac{I_{L}}{2} (z_{L} - z_{o}) e^{rL} \end{cases}$$

$$\int_{-\infty}^{\infty} \sqrt{(z)} = \frac{J_{L}}{2} (z_{L} + z_{0}) e^{r(\ell-z)} + \frac{J_{L}}{2} (z_{L} - z_{0}) e^{-r(\ell-z)}$$

$$\int_{-\infty}^{\infty} (z) = \frac{J_{L}}{2z_{0}} (z_{L} + z_{0}) e^{-r(\ell-z)} - \frac{J_{L}}{2z_{0}} (z_{L} - z_{0}) e^{-r(\ell-z)}$$

$$\int V(z) = \frac{I}{2} (Z+Z) e^{rz} \times \left[1 + \frac{Z-Z}{Z+Z} e^{-2rz} \right]$$

$$= V_{io} e^{-rz} \times \left[1 + \frac{Z-Z}{Z+Z} e^{-2rz} \right]$$

$$I(z) = \frac{V_{io}}{Z} e^{-rz} \times \left[1 - \frac{Z-Z}{Z+Z} \right]$$

$$2\beta Z' = 2\pi \times n$$

$$2 \times \frac{2\pi}{\lambda} \cdot Z' = 2\pi n$$

$$Z' = \frac{\lambda}{a} \times n$$

與負載相距 2分1 波長整数倍的地方

$$Z \beta Z' = \pi(hx2+1)$$

$$Z \times \frac{2\pi}{\lambda} \times Z' = \pi \times (2n+1)$$

$$z' = \frac{\lambda}{4} (2n+1)$$

距負載 士波長寺教后 的位置

$$\left| \int (z) \right| = \left| \frac{V_{io}}{Z_{o}} \right|_{x} \left| - \int_{L} e^{j2\beta Z^{1}} \right|$$

MAX 在

min 在

RLフR。 也就是

吸入

為正實数

lossless tml TML

到下半部僅考慮