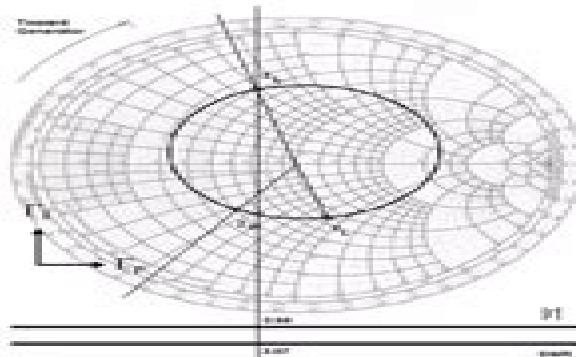


These are two families of circles as r_L and r_{in} . Superposition of Smith Chart and its 180° ($\lambda/4$) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



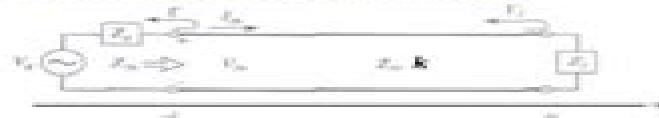
$\lambda/2$ is the complete revolution of Smith chart. $\lambda/4$ is the half of Smith chart (180°). The images of Z is Y in Smith chart.

2.3. Slotted Line

This device is used to find Z_L as first V_{min} .

- Measurement of SWR on the l_{min} distance from the line.
- Calculate $|\Gamma| = (SWR - 1)/(SWR + 1)$
- $e^{j(\theta - 2kl)}|_{V_{min}} = -1 \Rightarrow \theta = \pi + 2kl_{min}$
- Using θ and $|\Gamma|$, write $\Gamma = |\Gamma|e^{j\theta}$
- Calculate $Z_L = Z_0[(1 + \Gamma)/(1 - \Gamma)]$ at $t = 0$.

2.4. Generator & Load Mismatches



$$v(x) = V_0^+ e^{-j\beta x} + V_0^- e^{+j\beta x} = V_0^+ (e^{-j\beta x} + \Gamma_L e^{j\beta x})$$

$$v(-l) = V_0^+ (e^{j\beta l} + \Gamma_L e^{-j\beta l}) = \frac{Z_{in}}{Z_{in} + Z_L} V_0$$

$$Z_{in} = Z_0 \frac{1 + \Gamma_L e^{-j2\beta l}}{1 - \Gamma_L e^{-j2\beta l}} \Big|_{x=-l}$$

Then, using this

$$V_0^+ = \frac{Z_0}{Z_0 + Z_L} V_0 \frac{e^{-j\beta l}}{(1 - \Gamma_L \Gamma_G e^{-j2\beta l})}$$

where $\Gamma_G = Z_G - Z_0/Z_G + Z_0$ and $\Gamma_L = Z_L - Z_0/Z_L + Z_0$.

$$P = \frac{1}{2} \operatorname{Re}\{V_{in} I_{in}\} = \frac{|V_0|^2}{2} \frac{R_{in}}{(R_{in} + R_g)^2 + (X_{in} + X_g)^2}$$

where $Z_{in} = R_{in} + jX_{in}$ and $Z_g = R_g + jX_g$. Generally Z_g is fixed and three cases are considered as

- Load Matched to Line: $Z_L = Z_0$, $\Gamma_L = 0$, $SWR = 1$. Then $Z_{in} = Z_0$.

$$P = \frac{|V_0|^2}{2} \frac{Z_0}{(Z_0 + R_g)^2 + X_g^2}$$

- Generator Matched to Line: $Z_{in} = Z_g$, $\Gamma_g = 0$.

$$P = \frac{|V_0|^2}{2} \frac{R_g}{4(R_g^2 + X_g^2)}$$

- Conjugate Matching: $Z_{in} = Z_g^*$

$$\frac{\partial P}{\partial R_{in}} = 0 \Rightarrow \begin{cases} R_{in} = R_g \\ X_{in} = -X_g \end{cases} \Rightarrow Z_{in} = Z_g^*$$

$$P = \frac{|V_0|^2}{2} \frac{1}{4R_g^2}$$

Maximum power transfer: $\Gamma = \Gamma_g = \Gamma_L = 0$. If one directly chose $\Gamma = \Gamma_g = \Gamma_L = 0$, it does not mean that the best efficiency due to the phase differences. The efficiency can be improved only by making Z_g as small as possible.

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Thomas Koryu Ishii

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