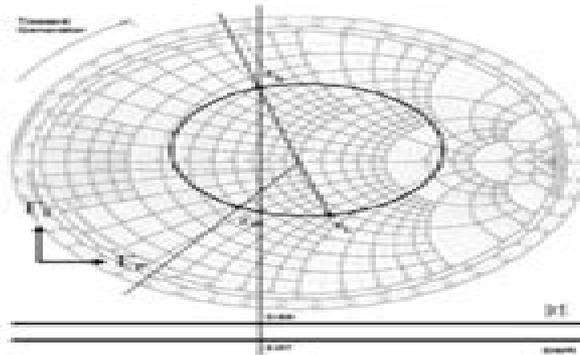


These are two families of circles as r_L and x_L . Superposition of Smith Chart and its 180° ($\lambda/4$) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



$\lambda/2$ 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 $|\Gamma| = (SWR - 1)/(SWR + 1)$
- $e^{j(\theta - 2\beta l)}|_{V_{min}} = -1 \Rightarrow \theta = \pi + 2kl_{min}$
- Using θ and $|\Gamma|$, write $\Gamma = |\Gamma|e^{j\theta}$
- Calculate $Z_L = Z_0[(1 + \Gamma)/(1 - \Gamma)]$ at $l = 0$.

2.4. Generator & Load Mismatches



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

$$v(-l) = V_0^+ (e^{j\beta l} + \Gamma_L e^{-j\beta l}) = \frac{Z_{in}}{Z_0 + Z_0} V_0^+$$

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

Then, using this

$$V_0^+ = \frac{Z_0}{Z_0 + Z_0} V_0 \frac{e^{-j\beta l}}{(1 - \Gamma_L \Gamma_0 e^{-j2\beta l})}$$

where $\Gamma_0 = Z_0 - Z_0/Z_0 + Z_0$ and $\Gamma_L = Z_L - Z_0/Z_L + Z_0$.

$$P = \frac{1}{2} \text{Re}\{v_{in} i_{in}^*\} = \frac{|V_0^+|^2}{2} \frac{R_{in}}{(R_{in} + R_0)^2 + (X_{in} + X_0)^2}$$

where $Z_{in} = R_{in} + jX_{in}$ and $Z_0 = R_0 + jX_0$. Generally Z_0 is fixed and three cases are considered as

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

$$P = \frac{|V_0^+|^2}{2} \frac{Z_0}{(Z_0 + R_0)^2 + X_0^2}$$

- Generator Matched to Line: $Z_{in} = Z_0$, $\Gamma_0 = 0$.

$$P = \frac{|V_0^+|^2}{2} \frac{R_0}{4(R_0^2 + X_0^2)}$$

- Conjugate Matching: $Z_{in} = Z_0^*$

$$\frac{\partial P}{\partial R_{in}} = 0 \Rightarrow \frac{R_{in} - R_0}{X_{in} = -X_0} \Big\} \Rightarrow Z_{in} = Z_0^*$$

$$P = \frac{|V_0^+|^2}{2} \frac{1}{4R_0^2}$$

Maximum power transfer $\Gamma = \Gamma_0 = \Gamma_L = 0$. If one directly chose $\Gamma = \Gamma_0 = \Gamma_L = 0$, it does not mean that the best efficiency due to the phase differences. The efficiency can be improved only by making Z_0 as small as possible.

Microwave Engineering Lecture Notes

KJ Lindholm-Leary



Microwave Engineering Lecture Notes :

Microwave Engineering Lecture Notes Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Microwave Engineering Lecture Notes**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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