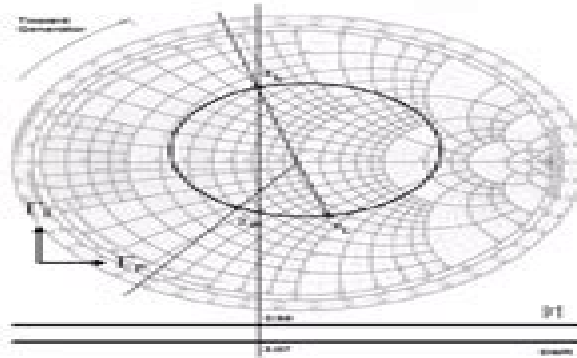


These are two families of circles as r_L and x_L . Superposition of Smith Chart and its 180° ($\lambda/4$) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



$\lambda/2$ 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 $|\Gamma| = (SWR - 1)/(SWR + 1)$
- $e^{j(\theta - 2\pi k)}|_{V_{min}} = -1 \Rightarrow \theta = \pi + 2kl_{min}$
- 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



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

$$v(-l) = V_0^+ (e^{jkl} + \Gamma_L e^{-jkl}) = \frac{Z_{in}}{Z_0 + Z_g} V_g$$

$$Z_{in} = Z_0 \frac{1 + \Gamma_L e^{-j2kl}}{1 - \Gamma_L e^{-j2kl}} \Big|_{x=-l}$$

Then, using this

$$V_0^+ = \frac{Z_0}{Z_0 + Z_g} V_g \frac{e^{-jkl}}{(1 - \Gamma_L \Gamma_g e^{-j2kl})}$$

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

$$P = \frac{1}{2} \operatorname{Re}\{v_{in} i_{in}^*\} = \frac{|V_g|^2}{2} \frac{R_{in}}{(R_{in} + R_g)^2 + (X_{in} + X_g)^2}$$

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 $Z_{in} = Z_0$.

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

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

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

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

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

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

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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Table of Contents Microwave Engineering Lecture Notes Ppt

1. Understanding the eBook Microwave Engineering Lecture Notes Ppt
 - The Rise of Digital Reading Microwave Engineering Lecture Notes Ppt
 - Advantages of eBooks Over Traditional Books
2. Identifying Microwave Engineering Lecture Notes Ppt
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microwave Engineering Lecture Notes Ppt
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microwave Engineering Lecture Notes Ppt
 - Personalized Recommendations
 - Microwave Engineering Lecture Notes Ppt User Reviews and Ratings
 - Microwave Engineering Lecture Notes Ppt and Bestseller Lists
5. Accessing Microwave Engineering Lecture Notes Ppt Free and Paid eBooks
 - Microwave Engineering Lecture Notes Ppt Public Domain eBooks
 - Microwave Engineering Lecture Notes Ppt eBook Subscription Services
 - Microwave Engineering Lecture Notes Ppt Budget-Friendly Options
6. Navigating Microwave Engineering Lecture Notes Ppt eBook Formats
 - ePub, PDF, MOBI, and More
 - Microwave Engineering Lecture Notes Ppt Compatibility with Devices
 - Microwave Engineering Lecture Notes Ppt Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microwave Engineering Lecture Notes Ppt
 - Highlighting and Note-Taking Microwave Engineering Lecture Notes Ppt
 - Interactive Elements Microwave Engineering Lecture Notes Ppt

8. Staying Engaged with Microwave Engineering Lecture Notes Ppt
 - [Joining Online Reading Communities](#)
 - [Participating in Virtual Book Clubs](#)
 - [Following Authors and Publishers](#) Microwave Engineering Lecture Notes Ppt
9. Balancing eBooks and Physical Books Microwave Engineering Lecture Notes Ppt
 - [Benefits of a Digital Library](#)
 - [Creating a Diverse Reading Collection](#) Microwave Engineering Lecture Notes Ppt
10. Overcoming Reading Challenges
 - [Dealing with Digital Eye Strain](#)
 - [Minimizing Distractions](#)
 - [Managing Screen Time](#)
11. Cultivating a Reading Routine Microwave Engineering Lecture Notes Ppt
 - [Setting Reading Goals](#) Microwave Engineering Lecture Notes Ppt
 - [Carving Out Dedicated Reading Time](#)
12. Sourcing Reliable Information of Microwave Engineering Lecture Notes Ppt
 - [Fact-Checking eBook Content](#) of Microwave Engineering Lecture Notes Ppt
 - [Distinguishing Credible Sources](#)
13. Promoting Lifelong Learning
 - [Utilizing eBooks for Skill Development](#)
 - [Exploring Educational eBooks](#)
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