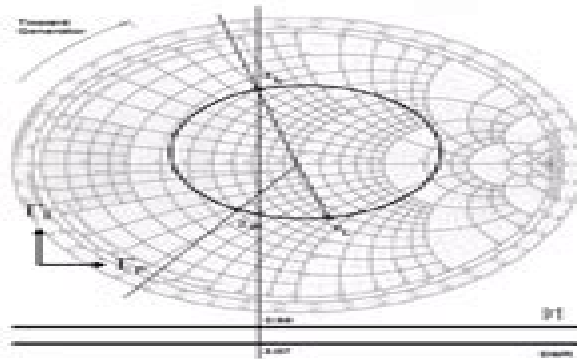


These are two families of circles as  $r_L$  and  $x_L$ . Superposition of Smith Chart and its  $180^\circ$  ( $\lambda/4$ ) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



$\lambda/2$  is the complete revolution of Smith chart.  $\lambda/4$  is the half of Smith chart ( $180^\circ$ ). 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  $|\Gamma| = (SWR - 1)/(SWR + 1)$
- $e^{j(\theta - 2\pi k l)}|_{V_{min}} = -1 \Rightarrow \theta = \pi + 2kl_{min}$
- Using  $\theta$  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



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

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

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

Then, using this

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

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

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

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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**Patrick Vollmar**



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*National Union Catalog*, 1982 Includes entries for maps and atlases      *National Union Catalog*, 1982, 1983

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The book deals with fundamental concept theory and designs as well as applications of microwaves in details In addition it also describes EMI and EMC Microwave hazards and applications of microwaves in medicals Radars and Radar devices and MASERS have also been described properly in this book Microwave antennas have been explained with emphasis on theory of operation and design procedures The book also focuses on microwave measurements along with necessary requirements and different methods of measurement      *Microwave Engineering* Ahmad Shahid Khan, 2014-03-24 Detailing the active and passive aspects of microwaves Microwave Engineering Concepts and Fundamentals covers everything from wave propagation to reflection and refraction guided waves and transmission lines providing a comprehensive understanding of the underlying principles at the core of microwave engineering This encyclopedic text not only encompasses nearly all facets of microwave engineering but also gives all topics including microwave generation measurement and processing equal emphasis Packed with illustrations to aid in comprehension the book Describes the mathematical theory of waveguides and ferrite devices devoting an entire chapter to the Smith chart and its applications Discusses different types of microwave components antennas tubes transistors diodes and parametric devices Examines various attributes of cavity resonators semiconductor and RF microwave devices and microwave integrated circuits Addresses scattering parameters and their

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*Microwave engineering* Thomas Koryu Ishii, 1990      **Advanced Microwave Engineering** Rajeswari Chatterjee, 1988  
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