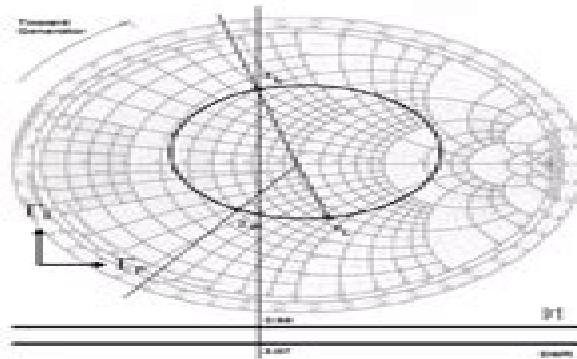


These are two families of circles as r_L and x_L . Superposition of Smith Chart and its 180° ($\lambda/4$) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



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



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

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

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

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 $\Gamma_L = Z_L - Z_0/Z_L + Z_0$.

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

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: $Z_{in} = Z_g^*$

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

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

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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Balanis' Advanced Engineering Electromagnetics Constantine A. Balanis, 2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains material on current and advanced EM technologies including the exciting and fascinating topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs Optimization of antenna fundamental parameters such as input impedance directivity realized gain amplitude radiation pattern Leaky wave antennas using 1 D and 2 D polarization diverse holographic high impedance metasurfaces for antenna radiation control and optimization Associated MATLAB programs for the design of checkerboard metasurfaces for RCS reduction and metasurface printed antennas and holographic L WA for radiation control and optimization Throughout the book there are Additional examples numerous end of chapter problems and PPT notes Fifty three MATLAB computer programs for computations graphical visualizations and animations Nearly 4 500 multicolor PowerPoint slides are available for self study or lecture use

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The Impact of the 4th Industrial Revolution on Engineering Education Michael E. Auer, Hanno Hortsch, Panarit Sethakul, 2020-03-17 This book gathers papers presented at the 22nd International Conference on Interactive Collaborative Learning ICL2019 which was held in Bangkok Thailand from 25 to 27 September 2019 Covering various fields of interactive and collaborative learning new learning models and applications research in engineering pedagogy and project based learning the contributions focus on innovative ways in

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Options to Ensure the Climate Record from the NPOESS and GOES-R Spacecraft National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Panel on Options to Ensure the Climate Record from the NPOESS and GOES-R Spacecraft,2008-07-19 In 2000 the nation s next generation National Polar orbiting Operational Environmental Satellite System NPOESS program anticipated purchasing six satellites for 6 5 billion with a first launch in 2008 By November 2005 however it became apparent that NPOESS would overrun its cost estimates by at least 25 percent In June 2006 the planned acquisition of six spacecraft was reduced to four the launch of the first spacecraft was delayed until 2013 and several sensors were canceled or descope in capability To examine the impacts of these changes particularly those associated with climate research and ways to mitigate those impacts NASA and NOAA asked the NRC to add this task to its ongoing decadal survey Earth Science and Applications from Space The sponsors and the NRC agreed to address this task

separately and to base its analysis on a major workshop This book presents summaries of discussions at the workshop which included sessions on the measurements and sensors originally planned for NPOESS and GOES R generation of climate data records mitigation options including the role of international partners and cross cutting issues **Global Developments in Environmental Earth Observation from Space** EARSeL Symposium,2006 *Ensuring the Climate Record from the NPOESS and GOES-R Spacecraft* National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Committee on a Strategy to Mitigate the Impact of Sensor Descope and Demanifests on the NPOESS and GOES-R Spacecraft,2008-09-25 In 2000 the nation s next generation National Polar orbiting Operational Environmental Satellite System NPOESS program anticipated purchasing six satellites for 6.5 billion with a first launch in 2008 By November 2005 however it became apparent that NPOESS would overrun its cost estimates by at least 25 percent In June 2006 the planned acquisition of six spacecraft was reduced to four the launch of the first spacecraft was delayed until 2013 and several sensors were canceled or descope in capability Based on information gathered at a June 2007 workshop Options to Ensure the Climate Record from the NPOESS and GOES R Spacecraft this book prioritizes capabilities especially those related to climate research that were lost or placed at risk following the 2006 changes This book presents and recommends a prioritized short term strategy for recovery of crucial climate capabilities lost in the NPOESS and GOES R program descopes However mitigation of these recent losses is only the first step in establishing a viable long term climate strategy one that builds on the lessons learned from the well intentioned but poorly executed merger of the nation s weather and climate observation systems **National Union Catalog** ,1982 Includes entries for maps and atlases **Commerce Business Daily** ,2000-06

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dedicado a su música en ese momento el joven comenzó a componer y sus primeras obras fueron interpretadas por una orquesta de alumnos de a s internado de la ciudad donde fue violinista en 1813 se jubila para empezar a trabajar como

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