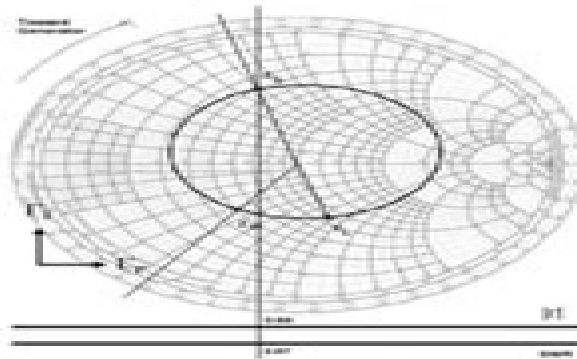


These are two families of circles as r_L and x_L . Superposition of Smith Chart and its 180° ($\lambda/4$) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



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



$$v(z) = V_0^+ e^{-j\beta z} + V_0^- e^{+j\beta z} = V_0^+ (e^{-j\beta z} + \Gamma_1 e^{j\beta z})$$

$$v(-l) = V_0^+ (e^{j\beta l} + \Gamma_1 e^{-j\beta l}) = \frac{Z_{in}}{Z_0 + Z_0} V_0^+$$

$$Z_{in} = Z_0 \frac{1 + \Gamma_1 e^{-j2\beta l}}{1 - \Gamma_1 e^{-j2\beta l}} \Big|_{z=-l}$$

Then, using this

$$V_0^+ = \frac{Z_0}{Z_0 + Z_0} V_0 \frac{e^{-j\beta l}}{(1 - \Gamma_1 \Gamma_0 e^{-j2\beta l})}$$

where $\Gamma_0 = Z_0 - Z_0/Z_0 + Z_0$ and $\Gamma_1 = Z_L - Z_0/Z_L + Z_0$.

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

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: $Z_{in} = Z_0^*$

$$\frac{\partial P}{\partial R_{in}} = 0 \Rightarrow \left. \begin{matrix} R_{in} = R_0 \\ X_{in} = -X_0 \end{matrix} \right\} \Rightarrow Z_{in} = Z_0^*$$

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

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.

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Arturo Cuomo



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Microwaves K. C. Gupta,1979 **Optimizing Higher Education Learning Through Activities and Assessments**

Inoue-Smith, Yukiko,McVey, Troy,2020-06-26 The mission of higher education in the 21st century must focus on optimizing learning for all students In a shift from prioritizing effective teaching to active learning it is understood that computer enhanced environments provide a variety of ways to reach a wide range of learners who have differing backgrounds ages learning needs and expectations Integrating technology into teaching assumes greater importance to improve the learning experience Optimizing Higher Education Learning Through Activities and Assessments is a collection of innovative research that explores the link between effective course design and student engagement and optimizes learning and assessments in technology enhanced environments and among diverse student populations Its focus is on providing an understanding of the essential link between practices for effective activities and strategies for effective assessments as well as providing examples of course designs aligned with assessments positioning college educators both as leaders and followers in the cycle of lifelong learning While highlighting a broad range of topics including collaborative teaching active learning and flipped classroom methods this book is ideally designed for educators curriculum developers instructional designers administrators researchers academicians and students *Emerging Materials and Advanced Designs for Wearable Antennas* Singh, Vinod

Kumar,Dubey, Vikas,Saxena, Anurag,Tiwari, Ratnesh,Sharma, Himani Goyal,2021-03-19 Bendable wearable materials like conductive strands fluid metallic mixes and polymer in paper are generally utilized as a part of the current adaptable electronic gadgets Extra necessities are implemented in wearable applications Characteristic elastic for example is an appealing exchange adaptable material that is biocompatible and offers high conductivity low lost simplicity to make and most importantly it is water climate safe and condition amicable The wearable antenna is one of the key components to establish body area network BAN for wireless communication which is why it has become such an important part of antenna research Wearable antennas are being applied successfully in various parts of life such as health monitoring physical training navigation RFID medicine military and more Emerging Materials and Advanced Designs for Wearable Antennas explores how wearable antenna technology is being employed to enhance the quality of life in various industries The technologies implemented and success of these antenna technologies is essential in the emerging field of wearable computing and is discussed in detail within the contents of this book While covering essential topics such as the optimization of antenna material improvement in flexible antenna performance synthesis and design aspects of antennas and transmission and receiving of the bendable antenna this book is ideal for the military field scientists the medical field practitioners stakeholders researchers academicians and students looking for the most advanced and updated research on the technology and implementation of wearable antennas spanning multiple industries **Processing, Properties, and Design of**

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□□□ (Japan),1972 *Harmonic Analysis on Symmetric Spaces and Applications I* Audrey Terras,1985-07 Since its beginnings with Fourier and as far back as the Babylonian astronomers harmonic analysis has been developed with the goal of unraveling the mysteries of the physical world of quasars brain tumors and so forth as well as the mysteries of the nonphysical but no less concrete world of prime numbers diophantine equations and zeta functions Quoting Courant and Hilbert in the preface to the first German edition of *Methods of Mathematical Physics* Recent trends and fashions have however weakened the connection between mathematics and physics Such trends are still in evidence harmful though they may be My main motivation in writing these notes has been a desire to counteract this tendency towards specialization and describe applications of harmonic analysis in such diverse areas as number theory which happens to be my specialty statistics medicine geophysics and quantum physics I remember being quite surprised to learn that the subject is useful My graduate education was that of the 1960s The standard mathematics graduate course proceeded from Definition 1.1.1 to Corollary 14.5.59 with no room in between for applications motivation history or references to related work My aim has been to write a set of notes for a very different sort of course *IEICE Transactions on Electronics* ,2005 *Classed Subject Catalog* Engineering Societies Library,1966 **The Cumulative Book Index** ,1992 A world list of books in the English language Microwave Circuit Design II--nonlinear Circuits ,1986

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