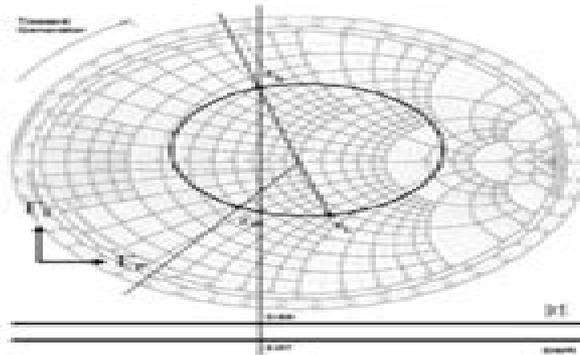


These are two families of circles as  $r_L$  and  $x_L$ . Superposition of Smith Chart and its  $180^\circ$  ( $\lambda/4$ ) rotated version is known as *Combined Impedance-Admittance Smith Chart*.



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



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

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

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

Then, using this

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

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

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

where  $Z_{in} = R_{in} + jX_{in}$  and  $Z_L = R_L + jX_L$ . Generally  $Z_L$  is fixed and three cases are considered as

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

$$P = \frac{|V_0^+|^2}{2} \frac{Z_0}{(Z_0 + R_L)^2 + X_L^2}$$

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

$$P = \frac{|V_0^+|^2}{2} \frac{R_L}{4(R_L^2 + X_L^2)}$$

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

$$\frac{\partial P}{\partial R_{in}} = 0 \Rightarrow \frac{R_{in} - R_L}{X_{in} = -X_L} \Big\} \Rightarrow Z_{in} = Z_L^*$$

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

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

# Microwave Engineering Lecture Notes

**IM Harris**



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Microwaves K. C. Gupta,1979      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**

**Advanced Ceramics and Composites** Gurpreet Singh,Amar S. Bhalla,Morsi M. Mahmoud,Ricardo H. R. Castro,Narottam P. Bansal,Dongming Zhu,J. P. Singh,Yiquan Wu,2016-09-27 This proceedings volume contains a collection of 34 papers from the following symposia held during the 2015 Materials Science and Technology MS T 15 meeting Innovative Processing and Synthesis of Ceramics Glasses and Composites Advances in Ceramic Matrix Composites Advanced Materials for Harsh Environments Advances in Dielectric Materials and Electronic Devices Controlled Synthesis Processing and Applications of Structure and Functional Nanomaterials Processing and Performance of Materials Using Microwaves Electric and Magnetic Fields Ultrasound Lasers and Mechanical Work Rustom Roy Memorial Symposium Sintering and Related Powder Processing Science and Technologies Surface Protection for Enhanced Materials Performance Science Technology and Application Thermal Protection Materials and Systems Ceramic Optical Materials Alumina at the Forefront of Technology

**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.

*Principles of Superconducting Quantum Computers* Daniel D. Stancil, Gregory T. Byrd, 2022-04-05. Explore the intersection of computer science, physics, and electrical and computer engineering with this discussion of the engineering of quantum computers. In *Principles of Superconducting Quantum Computers*, a pair of distinguished researchers delivers a comprehensive and insightful discussion of the building of quantum computing hardware and systems. Bridging the gaps between computer science, physics, and electrical and computer engineering, the book focuses on the engineering topics of devices, circuits, control, and error correction. Using data from actual quantum computers, the authors illustrate critical concepts from quantum computing. Questions and problems at the end of each chapter assist students with learning and retention, while the text offers descriptions of fundamentals, concepts ranging from the physics of gates to quantum error correction techniques. The authors provide efficient implementations of classical computations, and the book comes complete with a solutions manual and demonstrations of many of the concepts discussed within. It also includes a thorough introduction to qubits, gates, and circuits, including unitary transformations, single qubit gates, and controlled two qubit gates. Comprehensive explorations of the physics of single qubit gates, including the requirements for a quantum computer, rotations, two state systems, and Rabi oscillations. Practical discussions of the physics of two qubit gates, including tunable qubits, SWAP gates, controlled NOT gates, and fixed frequency qubits. In depth examinations of superconducting quantum computer systems, including the need for cryogenic temperatures, transmission lines, S parameters, and more. Ideal for senior level undergraduate and graduate students in electrical and computer engineering programs. *Principles of Superconducting Quantum Computers* also deserves a place in the libraries of practicing engineers seeking a better understanding of quantum computer systems.

**The Software Principles of Design for Data Modeling** Samanta, Debabrata, 2023-09-12. The *Software Principles of Design for Data Modeling*, written by Debabrata Samanta of Rochester Institute of Technology in Kosovo, offers a practical and comprehensive solution to the challenges of designing effective software architecture for data modeling. This book covers key topics such as gathering requirements, modeling requirements with use cases, testing the system, building entity relationship models, building class models in UML, with patterns of data modeling, and software quality.

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*International Journal of Electrical Engineering Education*, 1990 **Lecture Notes for a Course on Finite Elements for Technologists** Alvin Wexler, 1974 **Microwave Circuit Design II**, 1987 **End-user Training** Urs E. Gattiker, Laurie Larwood, 1990 **The United States Catalog**, 1965 *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

**Antenna Theory** Robert E. Collin, Francis J. Zucker, 1969      **Microwave Circuit Design II--nonlinear Circuits**, 1986      Classed Subject Catalog Engineering Societies Library, 1966      **Microwave Circuit Design**, 1982      **The British National Bibliography** Arthur James Wells, 2007      **National Union Catalog**, 1970 Includes entries for maps and atlases

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