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Chris Gammell - Gaining RF Knowledge: An Analog Engineer Dives into RF Circuits [10 circuit design tips every designer must know](#)

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(2) RF and Microwave PCB Design - Transmission Lines and Impedance - Altium Academy RF and Microwave PCB Design - Part 4: Power Dividers.

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EMC and the printed circuit board design theory and layout made simple **From Idea to Schematic to PCB - How to do it easily!** How Data is Transmitted by RF circuits (Wifi, bluetooth, phone, radio etc...) *PCB Design Rules and Routing*

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Practical RF Filter Design and Construction Tuned RF Power Amplifier Components *How Radio Waves Are Produced* KF5OBS #3: L-Network Impedance Matching *RF Design Theory and Principles (RAHRF201)* *Promotional Video*

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What is RF? Basic Training #165: *Why RF circuits need shielding - or how NOT to build a Theremin! (tnx 4 the title Ben!)* ~~RF Design Basics and Pitfalls~~ Introduction to RF Design Theory and Principles - RAHRF201 - learn Radio Frequency

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## **Ludwig & Bogdanov, RF Circuit Design: Theory**

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## **Radio Frequency Circuit Design**

Radio-frequency (RF) engineering is a subset of electronic engineering involving the application of transmission line, waveguide, antenna and electromagnetic field principles to the design and application of devices that produce or utilize signals within the radio band, the frequency range of about 20 kHz up to 300 GHz.. It is incorporated into almost everything that transmits or receives a ...

## **Radio-frequency engineering - Wikipedia**

Scattering Parameters in RF and Microwave Circuit

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Analysis and Design Book Description : Based on the popular Artech House title Microwave Network Design Using the Scattering Matrix, this authoritative resource provides comprehensive coverage of the wave approach to microwave network characterization, analysis, and design using scattering parameters.

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## **Microwave Circuit Design**

RF Circuit Design: Theory and Applications. Reinhold Ludwig, Gene Bogdanov. Pearson Education, 2009 - Radio circuits - 704 pages. 0 Reviews. Oscillator 573 10.3 Basic Characteristics of Mixers 574 10.3.1 Basic Concepts 575 10.3.2 Frequency Domain Considerations 578 10.3.3 Single-Ended Mixer Design 580 10.3.4 Single-Balanced Mixer 588 10.3.5 ...

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computations and allow the graphical display of the resulting impedance behaviors to be part of the Smith Chart.

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This specific ISBN edition is currently not available. This straightforward volume takes a distributed, transmission line approach to RF circuit design, with a focus on methodology fundamentals and minimal discussion of theoretical concepts. The Second Edition introduces RF design tools such as the Smith Chart, dual port networks, S-parameters, and provides extensive coverage of RF filter design, matching networks, active and passive device modeling, narrow and broadband amplifiers, mixers ...

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Introduction - RF Concepts that Affect the Design Space. The fundamental RF design concept is impedance matching [1]. When proper impedance is not maintained, forward power will be reflected, causing poor performance of the RF circuit. As in DC circuits, maximum power transfer is achieved by having the load resistance match the source resistance.

## **ESD Design for RF Mobile Applications - In Compliance Magazine**

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