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accessible with minimum discussion of electromagnetic field principles, this book provides Matlab routines to carry out simple transmission line computations and allow the graphical display of the resulting impedance behaviors to be part of the Smith Chart.

RF Circuit Design: Theory and Applications by Reinhold Ludwig

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RF Design Theory and Principles - RF Circuit Design Principles

Design of antenna systems to provide radiative coverage of a specified geographical area by an electromagnetic field or to provide specified sensitivity to an electromagnetic field impinging on the antenna. Design of coupling and transmission line structures to transport RF energy without radiation. Application of circuit elements and transmission line structures in the design of oscillators, amplifiers, mixers, detectors, combiners, filters, impedance transforming networks and other devices.

Radio-frequency engineering - Wikipedia

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The output of the RF stage is one input of a mixer. A Local Oscillator (LO) is the other input. The output of the mixer is at the Intermediate Frequency (IF). The concept here is that is much easier to build a high gain amplifier string at a narrow frequency band than it is to build a wideband, high gain amplifier.

CHAPTER 4 RF/IF CIRCUITS - Analog Devices

Basic Building Blocks of an RF System • RF-IC Transmitter Receiver Transceiver System-on-Chip (SoC); typically transceiver with integrated microcontroller • Crystal Reference frequency for the LO and the carrier frequency • Balun Balanced to unbalanced Converts a differential signal to a single-ended signal or vice versa • Matching • Filter

RF Basics, RF for Non-RF Engineers

RF Circuit Design: Theory and Application analysis of ordinary low-frequency circuits and components when

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the elevated operating frequency to the radio frequency band (usually refers to 30 MHz ~ 4 GHz). the difficulties encountered and solutions. and focus on the principles and methods of the TEM (transverse electromagnetic) wave transmission ...

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RF Modular Design IAP MIT Lincoln Laboratory 8 JHW 5/12/2011 Circuit and RF Component Models •Circuit components - Component behavior is described at the terminals - Using a current-voltage relationship - Components are connected with ideal lines to form a circuit - Circuit theory used to determine overall circuit behavior

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Modular System RF Design*

The design and optimization of spiral inductors on silicon substrates, the related layout issues in integrated circuits, and the effect of the inductor-Q on the performance of radio-frequency (RF ...

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This practical and comprehensive book introduces RF circuit design fundamentals with an emphasis on design methodologies. Features. Features. Provides MATLAB routines to carry out simple transmission line computations and allow the graphical display of the resulting impedance behaviors as part of the Smith Chart.

Ludwig & Bretchko, RF Circuit Design: Theory and ...

RF circuit design: Basics Akira Matsuzawa Tokyo Institute of Technology. 2 Contents • Building blocks in RF system and basic performances •

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Device characteristics in RF application •
Low noise amplifier design • Mixer
design • Oscillator design. 3 Basic RF
circuit block Receiver Transmitter
Impedance Matching 1) Low Noise Amp.
2) Mixer

RF circuit design: Basics

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