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Bretchko

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to be part of the Smith
Chart.

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taught on campus in
groups and now it is

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RF Design Theory and Principles - RF Circuit Design

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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

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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

The output of the RF stage is one input of a mixer. A Local Oscillator (LO) is the

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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

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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

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RF Basics, RF for Non-RF Engineers

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

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electromagnetic) wave
transmission ...

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(ebook) RF Circuit
Design - Chris Bowick,
Newnes

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RF Modular Design IAP
MIT Lincoln Laboratory

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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

Modular System RF

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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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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,

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RF circuit design:
Basics Akira

Matsuzawa Tokyo
Institute of Technology.

2 Contents • Building
blocks in RF system
and basic
performances • Device
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Mixer design •

Oscillator design. 3
Basic RF circuit block
Receiver Transmitter

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