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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

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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 it 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.

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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

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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 the elevated operating frequency to the

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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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components - Component behavior is

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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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The design and optimization of spiral

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Matsuzawa Tokyo Institute of
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in RF system and basic performances •
Device characteristics in RF application •
Low noise amplifier design • Mixer
design • Oscillator design. 3 Basic RF

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circuit block Receiver Transmitter
Impedance Matching 1) Low Noise Amp.
2) Mixer

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