

Radio Frequency Circuit Design Alan Davis

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Radio Frequency Circuit Design Alan

This tutorial on software-defined radio discusses how it enables specific mechanisms for tuning various frequencies including direct sampling and mixing.

Ultra-wide frequency tuning in software-defined radios

Maeda, S. Wada, Y. Yamamoto, K. Komurasaki, H. Matsumoto, T. Hirano, Y. Iwamatsu, T. Yamaguchi, Y. Ipposhi, T. Ueda, K. Mashiko, K. Maegawa, S. and Inuishi, M. 2001 ...

The Design of CMOS Radio-Frequency Integrated Circuits

The analysis and design of radio-frequency (RF) circuits can be quite complex, and real-life RF devices often behave in ways that are difficult to predict. Nonetheless, many important aspects of radio ...

Practical Guide to Radio-Frequency Analysis and Design

Alan Cross' Frequently Asked Questions ... My obsession with music began at age six when my grandmother gave me a transistor radio—an old Lloyds—which spawned an all-consuming fascination with things ...

About Alan Cross & FAQ

This updated and expanded new edition equips students with a thorough understanding of the state-of-the-art in radio frequency (RF) design and the practical knowledge and skills needed in industry.

Radio Frequency Integrated Circuits and Systems

are dozens of circuit designs. Most are very similar and will give a specific parts list for that design ... more than one crystal radio and compare them. Optional drawings could include those of ...

Radio Waves, It's In The Air: Build A Basic Radio

Using a form of Tank Circuit While reed-type meters are imprecise, their operational principle is not. In lieu of mechanical resonance, we may substitute electrical resonance and design ... frequency.

Frequency and Phase Measurement

This time around he's helping out a friend who is a ham radio enthusiast. The friend's radio didn't come with a frequency display ... That extra circuit design will be the topic of the ...

Arduino As An Inexpensive Ham Radio Frequency Counter

OnMicro, an innovator in RF semiconductors, today announced four new families of RF switches developed specifically for mobile applications. From 5G T ...

OnMicro Launches Four Families of RF Switches

The term metamaterials refers to a broad class of manufactured materials composed of structures that are finer than the wavelength of visible light, radio waves and other types ... phase for ...

These Materials Could Make Science Fiction a Reality

The demand for electronic design automation (EDA) software is expected to increase. Given this, it could be beneficial to bet on EDA companies Synopsys (SNPS), Cadence (CDNS), and Keysight (KEYS) ...

3 Electronic Design Automation Stocks to Buy Right Now

To overcome that problem, the team developed a method similar to noise-canceling headphones: applying a radio frequency signal ... "The new SPAD design could find practical uses in the ...

Counting single photons at unprecedented rates

Ansys HFSS is used by engineers to solve challenging design problems in microwave ... Ansys recently solved a radio frequency integrated circuit (RFIC) layout with over 100M unknowns! As measured by ...

Faster Than Moore's Law: Exponential Innovation In Electromagnetic Simulation

Apple iPhone 13 series launch is still a few months away. The company is expected to launch four new iPhone 12 series successor models. These are the iPhone 13 mini, iPhone 13, iPhone 13 Pro and ...

Apple iPhone 13 Pro video shows dummy unit with smaller notch, larger camera module

What are the best methods for maintaining the high efficiency of a SMPS without suffering from the detrimental effects of EMI?

Mitigating EMI in Switch-Mode Power Supplies

For things to work, the pump frequency should ... radar and space-related radio like radio telescopes and satellite receivers. Special design techniques — bridge circuits and cooling — can ...

Parametric Amplifiers And Varactors

Synopsys, one of the largest vendors of electronic-design-automation ... power management ICs, radio frequency ICs, and other analog chips previously slapped on the circuit board (PCB) in a ...

Unified Software Tool Suite Addresses SoC Simulation

In this piece Alan Carlton ... problems with digital design of OFDM (Orthogonal Frequency Division Multiplexing) methods appear. Which means going from 5G to 6G is likely to require a genuinely new ...

5G reality check: limitations and the need for 6G

The term metamaterials refers to a broad class of manufactured materials composed of structures that are finer than the wavelength of visible light, radio waves ... said Alan Huang, chief ...

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