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Michael Ossmann: Simple RF Circuit Design Radio Frequency Integrated Circuits (RFIC) - Lecture 1: An introduction RF Design Basics and Pitfalls (4) – RF and Microwave PCB Design – Altium Academy

Exploring In-Demand, High-Paying Jobs You've Never Heard About: Analog IC Layout (2/26/2014)*Monolithic Microwave Integrated Circuits: Design Strategies for First-time Success* **How to Design an RF Power Amplifier: The Basics CMOS RFIC Design Principles** Working on the Google Hardware Team 10 circuit design tips every designer must know The Fabrication of Integrated Circuits **Tutorial 41: Multi-Layer RF Layout Design Basics How Data is Transmitted by RF circuits (Wifi, bluetooth, phone, radio etc...)** **Design example of a CMOS LC VCO (tuning ~ 3 to 6 GHz) #91: Basic RF Attenuators - Design, Construction, Testing - PI and T style - A Tutorial**

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Fundamentals of RF and Wireless Communications

Fairchild Briefing on Integrated Circuits

Lecture 1 - Introduction to RF Design Tradeoffs Fading Diversity.flv*ISSCC 2015: Willy Sansen, Analog CMOS from 5 Micrometer to 5 Nanometer MOS Transistor Basics-I*

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The Design of CMOS Radio-Frequency Integrated Circuits Hardcover – Illustrated, 4 Mar. 2004

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This book provides the most comprehensive and in-depth coverage of the latest circuit design developments in RF CMOS technology. It is a practical and cutting-edge guide, packed with proven circuit techniques and innovative design methodologies for solving challenging problems associated with RF integrated circuits and systems.

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This book, first published in 2004, is an expanded and thoroughly revised edition of Tom Lee's acclaimed guide to the design of gigahertz RF integrated circuits. A new chapter on the principles of wireless systems provides a bridge between system and circuit issues.

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Radio-Frequency Integrated-Circuit Engineering. Radio-Frequency Integrated-Circuit Engineering addresses the theory, analysis and design of passive and active RFIC's using Si-based CMOS and Bi-CMOS technologies, and other non-silicon based technologies. The materials covered are self-contained and presented in such detail that allows readers with...

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Designing CMOS Radio Frequency Integrated Circuits (RFIC) The Radio Frequency Integrated Circuit (RFIC) is one of the core technologies that allowed wireless Internet to become a commodity today. Almost all portable computers, mobile devices or RF ID tags incorporate RFIC.

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RF CMOS is a metal-oxide-semiconductor integrated circuit technology that integrates radio-frequency, analog and digital electronics on a mixed-signal CMOS RF circuit chip. It is widely used in modern wireless telecommunications, such as cellular networks, Bluetooth, Wi-Fi, GPS receivers, broadcasting, vehicular communication systems, and the radio transceivers in all modern mobile phones and wireless networking devices. RF CMOS technology was pioneered by Pakistani engineer Asad Ali ...

[RF CMOS - Wikipedia](#)

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The course covers design aspects of RF IC circuits and systems. Fundamental RF circuit theory (matching, noise and distortion) and design and analysis of CMOS RF circuits like filters (passive), amplifiers (LNA, PA), mixers, voltage and injection locked oscillators (VCOs and ILOs) as well as phase-locked loops (PLLs) will be covered in depth.

[IN5240 – Design of CMOS RF-Integrated Circuits ...](#)

In 1985 he joined UCLA, where he pioneered RF CMOS technology in the late 1980s. His work changed the way in which RF circuits would be designed, away from discrete bipolar transistors and towards CMOS integrated circuits. Abidi was researching analog CMOS circuits for signal processing and communications during the late 1980s to early 1990s.

[Mixed-signal integrated circuit - Wikipedia](#)

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