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The Design of CMOS Radio-Frequency Integrated Circuits ...

This comprehensive and insightful book sets out in detail how to design gigahertz-speed radio-frequency integrated circuits in CMOS technology. With over 350 circuit diagrams and illustrations, and many homework problems, it will be an ideal textbook for anyone taking advanced undergraduate or graduate courses in RF electronics, as well as a useful reference for practising engineers.

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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

The simple diode varactor circuit is adopted for center-frequency tuning. These two improved circuits can reduce the power dissipation of the amplifier. An experimental chip fabricated by 0.5 μm double-poly-double-metal CMOS technology occupies a chip area of 500 × 500 μm² chip area. The measured results have verified the performance of the ...

The design of a 2-V 900-MHz CMOS bandpass amplifier ...

The project for this class will involve the design and simulation of a down-conversion chain for a radio frequency receiver in a 0.18 μm CMOS process. The project will be split into three subprojects: the first will be to design a low noise amplifier (LNA), the second will be to design a mixer, and the third will be to design a VCO and combine the three

ECE 6730: Radio Frequency Integrated Circuit Design

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The Design of CMOS Radio-Frequency Integrated Circuits

Recent Advances and Design Trends in CMOS Radio Frequency Integrated Circuits7 LO ports, wherein a strong interferer can phase-modulate the LO and self-mix down to the baseband frequencies. To gain an appreciation for the severity of the problem, consider an application of direct-conversion to the GSM standard.

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