

## CMOS ACTIVE INDUCTORS AND TRANSFORMERS%0A

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Active Inductors and Transformers, Part I of the book deals with the topologies, characteristics and implementation of CMOS active inductors and transformers.

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CMOS Active Inductors PeiYuan, CMOS Active Inductors and Transformers, Principle, Implementation, and Applications AIC 2015 R.Djuric 1

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Chapter 2 CMOS ACTIVE INDUCTORS This chapter provides an in-depth treatment of the principles, topologies, characteristics, and implementation of CMOS active inductors.

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Many new topologies and circuit design techniques have emerged recently to improve the performance of CMOS active inductors and transformers. However, a comprehensive treatment of the theory, topology, characteristics, and design constraints has not been available.

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This is a comprehensive examination of the principles and implementation of CMOS active inductors and transformers, and a review of emerging applications in high-speed analog signal processing and data communications over wire and wireless channels.

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with spiral inductors and transformers, the applications of CMOS active inductors and transformers are affected by a number of limitations intrinsic to synthesized devices.

h Engineer (Electronic) Final Year Project - UPCommons

Final Year Project Engineer (Electronic) Design of CMOS Active Inductors and their use in tuned narrowband and wideband-extension Low Noise Amplifier

Current-mode CMOS Active Inductor with Applications to Low ...

CMOS active inductors have been widely used in the design of ring and LC tank oscillators because of their small chip area and wide tenability [3-6]. All these circuits [3-6] suffer from a tradeoff between low voltage and low cost. Here, we propose a LC oscillator based on the current mode active inductor. Current mode approach has several advantages, such as extended bandwidth, simple circuit

### **(PDF) Design of active inductors using CMOS technology**

Active inductors are generally fabricated by using semi-insulating gallium arsenide (GaAs) technologies. However, the high cost currently involved in the use of these technologies restricts their

### **Noise-Cancelling CMOS Active Inductor and Its Application ...**

Abstract. A CMOS active inductor with thermal noise cancelling is proposed. The noise of the transistor in the feed-forward stage of the proposed architecture is cancelled by using a feedback stage with a degeneration resistor to reduce the noise contribution to the input.

### **Low Voltage High-Q CMOS Active Inductor For RF Applications**

Low Voltage High-Q CMOS Active Inductor For RF Applications Akhil GUPTA, Shahrokh AHMADI and Mona ZAGHLOUL Electrical and Computer Engineering Design and application of a CMOS active inductor at Ku ...

Since September 2014, she has been working on CMOS active inductors and filters. Her current research interests include design and test of CMOS RF and microwave circuits for wireless communications. This research is being developed at Wireless Circuits Lisbon Pole group of Instituto de Telecomunicações.

### **Design of Active Inductors using CMOS Technology**

Design of Active Inductors using CMOS Technology V. L. Belini and M. A. Romero University of São Paulo, Department of Electrical Engineering Avenue Carlos Botelho, 1465 C.P.359, CEP. 13560-970

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Many new topologies and circuit design techniques have emerged recently to improve the performance of active inductors, but a comprehensive treatment of the theory, topology, characteristics, and design constraint of CMOS active inductors and

### **Cmos Active Inductors | Inductor | Inductance**

Active inductors are linear when the swing of the voltages / currents of the inductors are small and all transistors of the active inductors are properly biased. respectively 36 CMOS Active Inductors where  $e[Z]$  and  $m[Z]$  are the resistance and inductive reactance of the inductor.23) provides a convenient way to quantify Q of linear inductors including active inductors.