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*Electronics theory : Inductors and transformers* **Minntronix Company**

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## **Transformer/inductor design Part 1**

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*Works Inductors and Inductance Winding*

*a 1:4 Current Balun with 8 turns. toroidal*

*winding machine -toroidal winder -current*

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costs, and increase integration levels of both RX and TX sections of the RF/mm-wave front-end, passive inductive components have experienced extraordinary growth in ICs.

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more and more monolithic integrated inductors and transformers have been used for circuit design. This technique allows a realization of compact high frequency circuits with a high level of integration and low production costs. Such typical applications of integrated inductors and transformers include for example:

~~Characterization of Integrated Lumped Inductors and ...~~

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Systematic Analysis and Modeling of Integrated Inductors and Transformers in RF IC Design Yorgos K.

Koutsoyannopoulos, Member, IEEE and Yannis Papananos, Senior Member, IEEE

Abstract— An efficient modeling technique and a novel CAD tool for the accurate prediction of the performance of integrated inductors and transformers is presented. This ...

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RF and MM-wave applications. [Angelo Scuderi;] -- "Passive inductive components have experienced an extraordinary growth in RF ICs. They are widely employed to improve performance, reduce fabrication costs and increase integration levels of both the ...

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devices can be fully integrated but the passive components especially inductors and transformers are still obstacles for further reducing the size of DC-DC converters. A lot of researches have been carried out to achieve inductor integration on-chip or in-package. Some demonstrators of air-core inductors, thin film magnetic inductors, and

~~Soft ferrite cores characterization for integrated micro ...~~

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[1] “CMOS Active Inductors and Transformers. Principle, Implementation, and Applications”, Fei Yuan. Springer, 2008. Book [2]: “Modeling, Design, and Characterization of Multiturn Bondwire Inductors With Ferrite Epoxy Glob Cores for Power Supply System-on-Chip or System-in-Package Applications”, Jian Lu, IEEE Transactions on power ...

~~An Overview of On-chip Inductors for Integrated Circuits ...~~

ON-CHIP SPIRAL

INDUCTOR/TRANSFORMER DESIGN  
AND MODELING FOR RF

APPLICATIONS by JI CHEN B.S. Fudan University, 2001 A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of Electrical Engineering

~~On-chip Spiral Inductor/transformer~~

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## Design And Modeling ...

2.1 Qualitative Discussion of the Physics of Inductors and Transformers A typical spiral inductor has geometry as shown in Fig. 1. Qualitatively, the spiral inductor consists of a number of series-connected metal segments. In each segment, time-varying conductive current will flow due to a time-varying voltage impressed on the segment.

## Analysis, Design, and Optimization of Spiral Inductors and Tra

DICKSON et al.:30–100-GHz

INDUCTORS AND TRANSFORMERS FOR MILLIMETER-WAVE (Bi)CMOS INTEGRATED CIRCUITS 125 Fig. 4.

Die photograph of 220-pH two-metal stacked inductor. Inductor is formed with two turns in metal 6 and two turns in metal 5. The outer diameter

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