



# **Integrated Inductors and Transformers: Characterization, Design and Modeling for RF and MM-Wave Applications**

*Egidio Ragonese, Angelo Scuderi, Tonio Biondi, Giuseppe Palmisano*

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# Integrated Inductors and Transformers: Characterization, Design and Modeling for RF and MM-Wave Applications

*Egidio Ragonese, Angelo Scuderi, Tonio Biondi, Giuseppe Palmisano*

## **Integrated Inductors and Transformers: Characterization, Design and Modeling for RF and MM-Wave Applications** Egidio Ragonese, Angelo Scuderi, Tonio Biondi, Giuseppe Palmisano

With the ability to improve performance, reduce fabrication 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. Therefore, a fundamental understanding of monolithic inductors and transformers has become essential for all process engineers and circuit designers.

Supplying balanced coverage of the technology and applications, **Integrated Inductors and Transformers: Characterization, Design and Modeling for RF and mm-Wave Applications** provides a complete overview of the design, fabrication, and modeling of monolithic inductors and transformers. It considers the underlying physics and theoretical background of inductive components fabricated on a semiconductor substrate.

- Deals with both inductors and transformers and their application in RF/mm-wave ICs
- Focuses on silicon-based inductive components and their performance optimization in RF/mm-wave ICs
- Provides insight into lumped scalable modeling of both inductors and transformers
- Covers concepts of system calibration, test pattern parasitics, and de-embedding for on-wafer measurements of passive devices
- Illustrates practical applications of theoretical concepts by means of meaningful circuit design examples

Highlighting the pressing requirements of the wireless market and evolving communication standards, the text provides a comprehensive review of recently developed modeling techniques and applications. It also includes helpful rule-of-thumb design guidelines and commonly employed optimization strategies to help kick-start your design, fabrication, and modeling efforts.

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