1. Record Nr. UNINA9910807829803321

Titolo	Integrated inductors and transformers : characterization, design, and modeling for RF and MM-wave applications / / Angelo Scuderi ... [et al.]
Pubbl/distr/stampa	Boca Raton, FL, : CRC Press, 2010
ISBN	0-429-11469-9 1-4200-8845-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (172 p.)
Altri autori (Persone)	ScuderiAngelo
Disciplina	621.38132 621.3815
Soggetti	Electric inductors Electric transformers Radio frequency integrated circuits
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"An Auerbach book".
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Contents; List of Figures; List of Tables; Chapter 1. Introduction; Chapter 2. Basic Concepts; Chapter 3. Monolithic Inductors on Silicon; Chapter 4. Analysis and Modeling of Silicon-Integrated Transformers; Chapter 5. Design Guidelines and Circuit Design Examples for Inductors and Transformers; Chapter 6. Inductive Components on Dieletric Substrates; Glossary; Index; Back cover
Sommario/riassunto	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 RX and TX parts of the RF front-end. Knowledge of basic concepts concerning design, fabrication, and modeling of monolithic inductors and transformers has become an essential prerequisite for process engineers and circuit designers. In this book, monolithic passive components are discussed to provide a complete overview on fabrication technology, design and optimization techniques, and modeling. Equal emphasis is given to technological aspects and circuit-oriented applications--