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Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIX, 144 p. 150 illus., 132 illus. in color.)
Disciplina	621.3
Soggetti	Microwaves Optical engineering Electronic circuits Optical materials Electronic materials Wireless communication systems Mobile communication systems Microwaves, RF and Optical Engineering Circuits and Systems Optical and Electronic Materials Wireless and Mobile Communication
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Silicon implementation of Planar Topologies -- Chapter-2: Fabrication technologies -- Chapter 3: Passive Circuits -- Chapter-4: Planar Antenna -- Chapter-5: MEMS Switch -- Chapter-6: Packaging concept in Radio Frequency -- Appendix-1: Material properties of some useful metals and dielectrics -- Appendix 2: Relaxation time estimation for some materials used in RF/microwave applications -- Appendix 3: Etch rate of various thin films of in wet and dry method -- Appendix 4: Readymade Chart for VSWR, Return Loss and Reflection Coefficient.
Sommario/riassunto	This book discusses the recent research developments of various passive microwave circuits on silicon substrate and demonstrated operations catering for multiple frequency bands. It covers the design, modelling, process fabrication and characterization aspects with

practical examples. The book will be of use to researchers and engineers working in the field of RF or microwave engineering, who can use the techniques and approaches effectively without having to refer to multiple sources. .
