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Autore	Caloz Christophe <1969->
Titolo	Electromagnetic metamaterials : transmission line theory and microwave applications : the engineering approach / / Christophe Caloz, Tatsuo Itoh
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , 2006 [Piscataway, New Jersey] : , : IEEE Xplore, , [2005]
ISBN	1-280-24295-7 9786610242955 0-470-32351-5 0-471-75432-3 0-471-75431-5
Descrizione fisica	1 online resource (372 p.)
Altri autori (Persone)	ItohTatsuo
Disciplina	620.1/18 620.118
Soggetti	Magnetic materials Metamaterials Nanostructured materials Microwave transmission lines Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamentals of LH MTMs -- TL theory of MTMs -- Two-dimensional MTMs -- Guided-wave applications -- Radiated-wave applications -- The future of MTMs.
Sommario/riassunto	Electromagnetic metamaterials-from fundamental physics to advanced engineering applications This book presents an original generalized transmission line approach associated with non-resonant structures that exhibit larger bandwidths, lower loss, and higher design flexibility. It is based on the novel concept of composite right/left-handed (CRLH) transmission line metamaterials (MMs), which has led to the development of novel guided-wave, radiated-wave, and refracted-wave devices and structures. The authors introduced this powerful new

concept and are therefore able to offer readers deep insight into the fundamental physics needed to fully grasp the technology. Moreover, they provide a host of practical engineering applications. The book begins with an introductory chapter that places resonant type and transmission line metamaterials in historical perspective. The next six chapters give readers a solid foundation in the fundamentals and practical applications:

- * Fundamentals of LH MMs describes the fundamental physics and exotic properties of left-handed metamaterials
- * TL Theory of MMs establishes the foundations of CRLH structures in three progressive steps: ideal transmission line, LC network, and real distributed structure
- * Two-Dimensional MMs develops both a transmission matrix method and a transmission line method to address the problem of finite-size 2D metamaterials excited by arbitrary sources
- * Guided-Wave Applications and Radiated-Wave Applications present a number of groundbreaking applications developed by the authors
- * The Future of MMs sets forth an expert view on future challenges and prospects

This engineering approach to metamaterials paves the way for a new generation of microwave and photonic devices and structures. It is recommended for electrical engineers, as well as physicists and optical engineers, with an interest in practical negative refractive index structures and materials.

2. Record Nr.	UNISALENTO991002662739707536
Autore	Gerelli, Emilio
Titolo	Le esperienze compiute nell'ambito del governo degli Stati Uniti d'America per una razionale scelta delle pubbliche spese / Emilio Gerelli
Pubbl/distr/stampa	Milano : Centro lombardo di studi e iniziative per lo sviluppo economico della Lombardia, 1966
Descrizione fisica	15 p. ; 29 cm.
Disciplina	336.390973
Soggetti	Spese pubbliche - Stati Uniti d'America
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Livello bibliografico	Monografia