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metamaterial loading and applications References 5. Reconfigurable, Tunable and Nonlinear Artificial Transmission Lines 5.1 Introduction 5.2 Materials, components and technologies to implement tunable devices 5.3 Tunable and reconfigurable metamaterial transmission lines and applications 5.4 Nonlinear transmission lines (NLTs) References 6. Other Advanced Transmission Lines 6.1 Introduction 6.2 Magnetoinductive-wave (MIW) and electroinductive-wave (EIW) delay lines 6.3 Balanced transmission lines with common-mode suppression 6.4 Wideband artificial transmission lines 6.5 Substrate integrated waveguides (SIW) and their application to metamaterial transmission lines References Appendixes Appendix A. Equivalence between plane wave propagation in source-free, linear, isotropic and homogeneous media, TEM wave propagation in transmission lines and wave propagation in transmission lines described by its distributed circuit model Appendix B. The Smith Chart Appendix C. The scattering matrix Appendix D. Current density distribution in a conductor Appendix E. Derivation of the simplified coupled mode equations and coupling coefficient from the distributed circuit model of a transmission line Appendix F. Averaging the effective dielectric constant in EBG-based transmission lines Appendix G. Parameter extraction G.1 Parameter extraction in CSRR-loaded lines G.2 Parameter extraction in SRR-loaded lines G.3 Parameter extraction in OSRR-loaded lines G.4 Parameter extraction in OCSRR-loaded lines Appendix H. Synthesis of resonant type metamaterial transmission lines by means of Aggressive Space Mapping (ASM) H.1 General formulation of ASM H.2 Determination of the convergence region in the coarse model space H.3 Determination of the initial layout H.4 The core ASM algorithm H.5 Illustrative examples and convergence speed Appendix I. Conditions to obtain all-pass X-type and bridged-T networks Index .

Sommario/riassunto

"This book presents and discusses alternatives to ordinary transmission lines for the design and implementation of advanced RF/microwave components in planar technology"--

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Altri autori (Persone)	BeaulieuArmand BianchiLorenzo <1949-> BraunLucien CalvetAntoine DumontJean-Paul JacquartDanielle JolyBernard LernerMichel-Pierre LestringantFrank MandosioJean-Marc MargolinJean-Claude MarquetJean-François MattonSylvain MothuAlain NeumannUlrich NewmanWilliam ObristBarbara PerfettiAmalia PerifanoAlfredo PolizziGilles SecretFrançois SegondsAlain Philippe VasoliCesare <1924-> VédrineHélène
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Sommario/riassunto	Si les alchimistes se désignaient eux-mêmes sous le nom de « philosophes », cette qualité leur fut déniée dès le Moyen-Âge par bien des représentants plus officiels de la « philosophie ». Aujourd'hui, l'importance des doctrines alchimiques dans l'histoire des idées n'est plus guère contestée. Pourtant, les rapports entre la « philosophie hermétique » ou « chymique » et la philosophie au sens habituel restent mal étudiés. C'est afin d'apporter des éléments de réponse à cette question que s'est tenu le colloque dont ce volume constitue les Actes. L'originalité des contributions est de présenter l'alchimie de la Renaissance (xve-xvii^e siècles) non comme un tout cohérent, donné une fois pour toutes dans la dimension anhistorique d'une « secrète science », mais comme un corpus théorique traversé par une multiplicité de tendances. Cette multiplicité est ici illustrée par l'analyse d'œuvres ou de courants particuliers ayant contribué au développement des doctrines alchimiques, comme la Summa perfectionis de Geber, les traités attribués à Arnaud de Villeneuve, les œuvres de Guillaume Sedacer, Paracelse, Gérard Dorn, Evangelista Quattrami, Jacques Gohory, Michel Maier, Pierre-Jean Fabre, etc. Elle l'est aussi à travers l'étude de la représentation de l'alchimie et de son influence chez des philosophes ou savants eux-mêmes non alchimistes, tels Michel Savonarole, Marsile Ficin, André Thevet, Tycho Brahé, Giordano Bruno, Campanella, Naudé, ou Mersenne.