

Abstracts

Theory of Nonreciprocal and Nonsymmetric Uniform Transmission Lines

I.V. Lindell, M.E. Valtonen and A.H. Sihvola. "Theory of Nonreciprocal and Nonsymmetric Uniform Transmission Lines." 1994 Transactions on Microwave Theory and Techniques 42.2 (Feb. 1994 [T-MTT]): 291-297.

A nonreciprocal and nonsymmetric transmission line is one which has different line parameters for waves propagating in opposite directions. Such a concept emerges in problems of electromagnetic wave propagation in layered structures of biisotropic (nonreciprocal chiral) media. It is shown that the well-known transmission-line formulas can be generalized for the present transmission line.

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