Abstracts

An Efficient Method for Study of General Bi-Anisotropic Waveguides

In this paper, coupled-mode equations for general bianisotropic waveguides with perfect electrically conducting (PEC) walls are studied and a set of rigorous expressions is obtained. The features of these equations are discussed and applications to circular/rectangular Faraday chiral and chiral waveguides are demonstrated. Comparisons between Faraday chiral, chiral, and ferrite-filled waveguides are also given.

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