Abstracts

Properties of and Generalized Full-Wave Transmission Line Models for Hybrid (Bi)(an)isotropic Waveguides

In this contribution single and coupled equivalent transmission lines are developed for the propagation of modes in reciprocal and nonreciprocal, anisotropic, bi-isotropic and bi-anisotropic waveguides. The transmission lines are described by the generalized telegrapher's equations. In order to develop these transmission line models some properties, related to reciprocity, hi-directionality, and mirroring, of general waveguides and generalized transmission lines are investigated. The transmission line models are based on the reciprocity theorem and are valid for arbitrary frequencies.

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