Abstracts

Toward a Generalized Algorithm for the Modeling of the Dispersive Properties of Integrated Circuit Structures on Anisotropic Substrates

A variety of substrate materials used in practice exhibit anisotropic behavior which is either inherent to the material or may be acquired during the manufacturing process. The development of highly accurate models for the propagation properties of integrated circuit structures necessitates careful accounting of substrate anisotropy. In this paper, an algorithm is developed which models structures such as microstrip, inverted microstrip, slotlines, and coplanar waveguides on anisotropic substrates. The model includes cases where the circuit has a cover or is enclosed in a rectangular shield.

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