Abstracts

The Effect of Substrate Anisotropy on the Dominant-Mode Leakage from Stripline with an Air Gap (1995 Vol. I [MWSYM])

D. Nghiem, J.T. Williams, D.R. Jackson and A.A. Oliner. "The Effect of Substrate Anisotropy on the Dominant-Mode Leakage from Stripline with an Air Gap (1995 Vol. I [MWSYM])." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 141-144.

The fundamental properties of dominant leaky modes that exist on stripline structures having a small air gap above the conducting strip and uniaxial anisotropic substrates are summarized. Dominant leaky modes have a quasi-TEM strip current, and are often strongly excited by conventional stripline feeds. These leaky modes result in undesirable crosstalk and spurious stripline performance. New physical effects introduced by the substrate anisotropy are discussed.

❑ Return to main document.