Abstracts

Anisotropic permittivity extraction from phase propagation measurements using an anisotropic full-wave Green's function solver for coplanar ferroelectric thin film devices

C.M. Krowne, S.W. Kirchoefer and J.M. Pond. "Anisotropic permittivity extraction from phase propagation measurements using an anisotropic full-wave Green's function solver for coplanar ferroelectric thin film devices." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1193-1196.

Here a full-wave spectral domain integral equation technique is used to study double substrate layer coplanar devices with the ferroelectric thin film adjacent to the conductor guiding interfacial surface. The Green's function is used in the anisotropic situation for anisotropic permittivities. In examining specific laboratory data, going from unbiased static electric field to the biased case, the permittivity tensor is allowed to go from a unity tenser to a uniaxial one.

❑ Return to main document.