

# Abstracts

## Surface Wave Leakage of Coplanar Waveguide with Nearby Back Conductor Plane

---

*Y.D. Lin and J.-W. Sheen. "Surface Wave Leakage of Coplanar Waveguide with Nearby Back Conductor Plane." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1701-1704.*

With supporting back conductor present, coplanar waveguide is leaky at lower frequency range. The effect of this nearby back conductor on the surface wave leakage of coplanar waveguide is investigated for the design of appropriate supporting structures. Various physical parameters are used to fully understand its effect. It is shown that the propagation characteristics of the original coplanar waveguide is unaffected with the back conductor placed a few times of the dielectric thickness away.

[Return to main document.](#)

Click on title for a complete paper.