

Abstracts

Generation and Observation of Surface Waves on Dielectric Slabs and Coplanar Structures

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Surface waves have been transmitted and received in dielectric slabs using microwave and millimeter wave wafer probes. Experimental results suggest that the TE_{sub 0} and TM_{sub 0} surface waves have been measured. Coupling between the coplanar waveguide mode and surface wave modes has also been achieved experimentally. This coupling is primarily due to the TM_{sub 0} end TE_{sub 1} modes that propagate beyond the ground plane edges of the coplanar waveguide.

[Return to main document.](#)