# Abstracts

## Surface Waves on Symmetrical Three-Layer Sandwiches (Correspondence)

*J.H. Richmond. "Surface Waves on Symmetrical Three-Layer Sandwiches (Correspondence)." 1960 Transactions on Microwave Theory and Techniques 8.5 (Sep. 1960 [T-MTT]): 572-572.*

The theory of surface waves on plane dielectric slabs has been presented by Plummer and Hansen. Additional numerical results are shown in Figs. 1 and 2 for the lowest order TM and TE modes that can exist on a grounded dielectric slab. The slab has thickness d, and a relative dielectric constant of 4. It is separated by an air gap of thickness a from the ground plane. c/v represents the ratio of the velocity of light in free space and the phase velocity of the surface wave. By image theory, these modes (TM/sub 0/ and TE/sub 1/) can also exist on a symmetrical, three-layer, air-core sandwich to which the given numerical data also apply.

❑ Return to main document.