

Abstracts

Launching Efficiency of the HE₁₁ Surface Wave Mode on a Dielectric Rod

G.L. Yip. "Launching Efficiency of the HE₁₁ Surface Wave Mode on a Dielectric Rod." 1970 Transactions on Microwave Theory and Techniques 18.12 (Dec. 1970 [T-MTT] (1970 Symposium Issue)): 1033-1041.

The excitation of the dominant HE₁₁ mode by a transversely oriented electric dipole on the axis of an infinitely long dielectric rod is studied. The method of analysis involves expressing the fields and the source in a Fourier integral in the z direction and a Fourier series in the phi direction in a cylindrical coordinate system (rho, phi, z). The practical significance of the present study, in particular regard to the excitation problem in dielectric surface waveguides, is emphasized.

[Return to main document.](#)