

Discrepancies in Dielectric Waveguide Mode Cutoff Conditions (Correspondence)

P. Diamant, S.P. Schlesinger, G. Biernson and D.J. Kinsley. "Discrepancies in Dielectric Waveguide Mode Cutoff Conditions (Correspondence)." 1965 Transactions on Microwave Theory and Techniques 13.6 (Nov. 1965 [T-MTT]): 884-885.

The rederivation of the characteristics of modes of propagation along a dielectric rod by Biernson and Kinsley kindled renewed interest in work we published in 1960 on the same topic. Whereas our interest in the dielectric rod waveguide was as a surface wave transmitting structure at microwave frequencies, Biernson and Kinsley analyze this configuration mainly as a model of retinal cones, sensitive to optical frequencies. Since the electromagnetic field equations are, of course, identical in both regimes, a direct comparison is possible.

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