

Abstracts

The Exponential Horn as a Uniform Waveguide with a Variable Index of Refraction (Correspondence)

L.W. Zelby, A.J. Russo and S.G. Beard. "The Exponential Horn as a Uniform Waveguide with a Variable Index of Refraction (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.8 (Aug. 1968 [T-MTT]): 566-567.

Plane-wave and transmission-line equations were applied to the interaction of a horn antenna with a stratified dissipative medium in its near field. The input impedances of an exponential horn terminated with a dissipative dielectric were calculated and measured at X-band frequencies.

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