

# Abstracts

## **Cylindrical Waveguides Containing Inhomogeneous Dielectric (Correspondence)**

---

*S.L. Richter, Y. Klinger and E. AhSam. "Cylindrical Waveguides Containing Inhomogeneous Dielectric (Correspondence)." 1967 Transactions on Microwave Theory and Techniques 15.8 (Aug. 1967 [T-MTT]): 488-489.*

In the above correspondence, AhSam and Klinger discussed the difficulty of obtaining complete analytic solutions for propagation of electromagnetic waves in inhomogeneous media with circular cylindrical symmetry. In order to aid the search for exact solutions, they studied the special case in which the relative permittivity, independent of the azimuthal and axial coordinates, varies inversely as the square of the radius so that two of the six field equations uncouple.

[Return to main document.](#)