Abstracts

Propagation in Cylindrical Waveguide Containing Inhomegenous Dielectric (Correspondence)

Considerable attention is being paid to the problem of propagation of electromagnetic waves in inhomogeneous media. Little appears to have been published in systems with cylindrical symmetry. Typical of a numerical approach is the paper by Clarricoats and Oliner where an equivalent circuit is used to represent the inhomogeneous waveguide. On the other hand, Yamada and Watanabe have solved analytically a special case where the dielectric constant is a parabolic function of the radius. The solution obtained was restricted to circularly symmetrical modes, and was exact for TE modes only.

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