Abstracts

Wave Propagation in Sinusoidally Stratified Dielectric Media (Comments)

Great interest has been evidenced in a recent paper by Tamir and his associates with regard to the problems involved in solving the equations which govern wave propagation in a waveguide containing an inhomogeneous dielectric media with a sinusoidal variation of the permittivity in the longitudinal direction. In this communication, an alternative approach to the solution of the equations is presented in which the vector wave equation method, as described by Hansen and Stratton, is followed. In conjunction with this approach, the Hertzian vector technique is employed in a particularly appealing and satisfying manner. The usefulness of the methodology described is more than adequately demonstrated.

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