

Abstracts

Mode Propagation in Multilayered Dielectric Loaded Waveguides by Ray Theory (Correspondence)

J.E. Robinson and M.A. Hamid. "Mode Propagation in Multilayered Dielectric Loaded Waveguides by Ray Theory (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.4 (Apr. 1968 [T-MTT]): 261-261.

The concept of angular spectrum of plane waves is used to extend Officer's solution for the electric field in a rectangular waveguide loaded by a single dielectric layer to deal with the more general case of multiple layers. It is shown that only few scattered rays are needed in order to obtain a simple approximate solution for the case of oblique ray incidence and small number of dielectric layers.

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