

Analysis of an Inhomogeneously Loaded Rectangular Waveguide with Dielectric and Metallic Losses

F. Gauthier, M. Besse and Y. Garault. "Analysis of an Inhomogeneously Loaded Rectangular Waveguide with Dielectric and Metallic Losses." 1977 Transactions on Microwave Theory and Techniques 25.11 (Nov. 1977 [T-MTT]): 904-907.

A dielectric loaded rectangular guide (Fig. 1) is analyzed taking into account the losses of the line, the substrate, and the metallic shield. For this study, Schelkunoff's method is used in considering the propagation modes as a convenient combination of coupled modes of the empty waveguide. Computations and experimental measurements are made for two different lines.

 [Return to main document.](#)