

Abstracts

Analysis of the Dispersion Characteristic of Slot Line with Thick Metal Coating

T. Kitazawa, Y. Hayashi and M. Suzuki. "Analysis of the Dispersion Characteristic of Slot Line with Thick Metal Coating." 1980 Transactions on Microwave Theory and Techniques 28.4 (Apr. 1980 [T-MTT]): 387-392.

A theoretical method is presented for the analysis of the slot line employing the network analytical methods of electromagnetic fields and Galerkin's procedure. The propagation constants for the dominant and higher order mode as well as the effect of the metal-coating thickness on the propagation constant and the characteristic impedance are obtained. The numerical results are compared with other available data.

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