Abstracts

A Rigorous Analysis of Uniform Stripline of Arbitrary Dimensions

M.H. Burchett, S.R. Pennock and P.R. Shepherd. "A Rigorous Analysis of Uniform Stripline of Arbitrary Dimensions." 1993 Transactions on Microwave Theory and Techniques 41.11 (Dec. 1993 [T-MTT] (1993 Symposium Issue)): 2074-2080.

This paper presents a rigorous and computationally efficient analysis for stripline of arbitrary dimensions based on the transverse resonance diffraction technique. Calculated higher order mode cutoff frequencies show excellent agreement, and attenuation factor shows good agreement with measured values for an air-filled stripline. The higher order mode cutoff frequencies, impedance, and attenuation factor results all show improved accuracy over conventional numerical or analytical techniques for a wide range of dimensional ratios.

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