Abstracts

An Accurate Bivariate Formulation for Computer-Aided Design of Circuits Including Mlcrostrip (Short Papers)

Y.L. Chua, J.B. Davies and D. Mirshekar-Syahkal. "An Accurate Bivariate Formulation for Computer-Aided Design of Circuits Including Mlcrostrip (Short Papers)." 1983 Transactions on Microwave Theory and Techniques 31.8 (Aug. 1983 [T-MTT]): 685-687.

An accurate and fast bivariate interpolation technique is used to compute the microstrip parameters at an arbitrary frequency and of any strip width. This technique allows computation of the effective dielectric constant, characteristic impedance, dielectric loss, and the conductor loss of microstrip in a time appropriate for computer-aided design application. By combining interpolation techniques with a highly accurate theory, computing is more accurate or faster than earlier theories, which achieve speed of computation by a priori approximations.

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