

Abstracts

Microstrip Transmission Line with Finite-Width Dielectric

C.E. Smith and R.-S. Chang. "Microstrip Transmission Line with Finite-Width Dielectric." 1980 Transactions on Microwave Theory and Techniques 28.2 (Feb. 1980 [T-MTT]): 90-94.

The results of a numerical solution for open microstrip transmission line with finite-width dielectric are presented for a quasi-TEM computational model. The related solution is based on moment methods using equivalent source models for the free and bound charges existing on boundary surfaces. Characteristic impedance and velocity of propagation are presented in graphical form for estimating the effects of dielectric truncation on microstrip circuits and for related circuit design.

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