

Abstracts

Improved Analysis and Design of Coupled-Line Phase Shifters

C.E. Free and C.S. Aitchison. "Improved Analysis and Design of Coupled-Line Phase Shifters." 1995 Transactions on Microwave Theory and Techniques 43.9 (Sep. 1995, Part I [T-MTT]): 2126-2131.

An analysis of coupled-line microstrip phase shifters is presented which shows that significant differences in theoretical performance are obtained by using an exact analysis in terms of odd and even mode propagation velocities rather than the approach in which the velocities are averaged. Measured data are presented and compared with theory over the frequency range 8-12 GHz and the agreement with theory is good.

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