

Abstracts

Pulse Distortion on Multilayer Coupled Microstrip Lines

J.P. Gilb and C.A. Balanis. "Pulse Distortion on Multilayer Coupled Microstrip Lines." 1989 Transactions on Microwave Theory and Techniques 37.10 (Oct. 1989 [T-MTT]): 1620-1628.

The distortion of pulses due to dispersion and coupling on generalized planar microstrip is investigated. A simple, general form for the Green's function is obtained by solving the boundary value problem separately for the $TE_{\sup y}$ and $TM_{\sup y}$ modes. The mechanism of even/odd-mode distortion is discussed and numerical results are presented illustrating its effect. The design of structures with low even/odd-mode distortion is considered. Results for pulse distortion on this type of microstrip are also included.

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