Abstracts

Dispersion Analysis of Square Pulse with Finite Rise Time in Single, Tapered and Coupled Microstrip Lines

P. Pramanick and R.R. Mansour. "Dispersion Analysis of Square Pulse with Finite Rise Time in Single, Tapered and Coupled Microstrip Lines." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 221-224.

Distortion of an electrical pulse, with finite rise time (quadratic-linear-quadratic transition) caused by dispersion as it propagates along a uniform microstrip a tapered microstrip and a coupled pair of microstrips is investigated. Closed form analysis equations for single and coupled microstrips and an algorithm for numerical quadrature technique for evaluation of inverse Fourier transform have been used. The results will be useful in the time domain analysis of many circuit components where such microstrips are used.

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