Abstracts

Effects of Substrate Anisotropy on the Dispersion of Transient Signals in Microstrip Lines

G.W. Zheng, K.S. Chen and S.T. Peng. "Effects of Substrate Anisotropy on the Dispersion of Transient Signals in Microstrip Lines." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 657-660.

The analysis of dispersion characteristics of transient signal in microstrip lines with anisotropic substrate is developed here, with particular attention directed toward the effects of arbitrary orientations of the principal optical axis in anisotropic substrates. Numerical simulations are carried out for the propagation of transient signals, square or Guassian pulses, along microstrips with anisotropic substrates. It is shown that the dispersion characteristics is substantially affected by the change of the orientation angle of the principal optical axis in the substrate.

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