Abstracts

Electrooptic Sampling Slot Line and Coplanar Measurement of Dispersion Characteristics of Waveguide (Coupled Slot Line) Even and Odd Modes

R. Majidi-Ahy, K.J. Weingarten, M. Riaziat, D.M. Bloom and B.A. Auld. "Electrooptic Sampling Slot Line and Coplanar Measurement of Dispersion Characteristics of Waveguide (Coupled Slot Line) Even and Odd Modes." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 301-303.

The application of the electrooptic sampling technique for the characterization of propagating modes of uniplanar guiding structures on GaAs is described. The characteristics of slot line and even and odd modes of coplanar waveguide on semi-insulating GaAs substrate are investigated. The potential distribution over the cross section of each was measured. Also the guide wavelength for each guide was directly obtained from standing wave measurements by electrooptic sampling and the dispersion characteristics of CPW modes and slot line were measured from 15 to 40 GHz.

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