Abstracts

Direct Polar Display of Subnanosecond Millimeter-Wave Switching at 300 Mbit/s

F. Bosch and S.S. Cheng. "Direct Polar Display of Subnanosecond Millimeter-Wave Switching at 300 Mbit/s." 1978 Transactions on Microwave Theory and Techniques 26.1 (Jan. 1978 [T-MTT]): 24-27.

The switching behavior of an 80.99-GHz p-i-n diode modulator for the 40-110-GHz waveguide transmission system is studied. Detailed knowledge of the type of transient is required to establish rise-time and timing-error specifications compatible with the system performance objective. A test set displaying the transients at 300 Mbit/s in polar coordinates with a convenient time readout is described. The technique is suitable for the study of multiphase modulators in ultra-high-speed digital radio or satellite transmission systems.

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