Abstracts

Characterization of a Monolithic Slot Antenna Using an Electro-Optic Sampling Technique

K. Kamogawa, I. Toyoda, K. Nishikawa and T. Tokumitsu. "Characterization of a Monolithic Slot Antenna Using an Electro-Optic Sampling Technique." 1994 Microwave and Guided Wave Letters 4.12 (Dec. 1994 [MGWL]): 414-415.

The first electro-optic measurement of a monolithic antenna near-field is presented. A 10-GHz monolithic slot antenna is designed and precisely characterized by Electro-Optic Sampling (EOS). The fringing effect of a shorted slot and the influence of undesirable modes on the antenna's near field can be measured accurately. Therefore, the EOS technique is very effective for on-wafer measurement and the development of monolithic antennas.

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