Abstracts

The Synthetic Generation of Phase-Coherent Microwave Signals for Transient Behavior Measurements (Correspondence)

G.F. Ross. "The Synthetic Generation of Phase-Coherent Microwave Signals for Transient Behavior Measurements (Correspondence)." 1965 Transactions on Microwave Theory and Techniques 13.5 (Sep. 1965 [T-MTT]): 704-706.

The purpose of this correspondence is to describe a new technique for generating a microwave signal for use as a diagnostic tool in the investigation of the transient behavior of wide-band networks and dispersive media. The test signal is a periodic, phase-coherent, pulse-modulated microwave waveform which has a negligible transient build-up time. It is phase-coherent in the sense that the phase of the carrier is exactly the same at the start of each pulse. This condition is essential if the individual cycles of the response of a system to the test waveform are to be observed on a sampling oscilloscope.

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