Abstracts

Ultra-Wideband Transient Microwave Scattering Measurements Using Optoelectronically Switched Antennas

L. Carin and K. Agi. "Ultra-Wideband Transient Microwave Scattering Measurements Using Optoelectronically Switched Antennas." 1993 Transactions on Microwave Theory and Techniques 41.2 (Feb. 1993 [T-MTT]): 250-254.

Ultra-wideband transient microwave scattering measurements are performed using optoelectronically switched planar antennas. The laser-based system produces freely propagating bursts of picosecond duration electromagnetic radiation, with a bandwidth extending from 5 to over 70 GHz. Measurements are presented for scattering from one and two conducting strips and from a conducting sphere. All measurements are compared to theoretical computations.

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