Abstracts

1.55-/spl mu/m photonic systems for microwave and millimeter-wave measurement

T. Nagatsuma, M. Shinagawa, N. Sabri, A. Sasaki, Y. Royter and A. Hirata. "1.55-/spl mu/m photonic systems for microwave and millimeter-wave measurement." 2001 Transactions on Microwave Theory and Techniques 49.10 (Oct. 2001, Part II [T-MTT] (Special Issue on Microwave and Millimeter-Wave Photonics)): 1831-1839.

This paper reviews recent advances in 1.55-/spl mu/m photonic systems for measurement and sensors covering the frequency range from microwaves to millimeter waves. We first deal with the basic technologies for photonic measurement, i.e., generation, transmission, and detection of high-frequency signals, and then discuss recent practical applications, including high-speed integrated-circuit probers, sampling oscilloscopes, network analyzers, and some free-space sensing systems.

❑ Return to main document.