

Abstracts

Travelling-Wave Photodetectors

K. Giboney, J. Bowers and M. Rodwell. "Travelling-Wave Photodetectors." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 159-162.

Attention to the microwave design of waveguide photodetectors leads to travelling-wave photodetectors. These devices show bandwidths as high as 172 GHz, the highest reported for a p-i-n photodetector, and bandwidth-efficiency products as large as 76 GHz, the largest reported for any photodetector without gain. Direct comparisons with vertically illuminated and waveguide photodetectors confirm the advantages of travelling-wave photodetectors.

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