

## Integrated Optically Driven Millimeter Wave Sources and Receivers

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*H.R. Fetterman, D.P. Prakash, D.C. Scott, W. Wang and B. Jalali. "Integrated Optically Driven Millimeter Wave Sources and Receivers." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1493-1496.*

HBTs driven by mixing stabilized lasers and by mode locked semiconductor lasers have been used to make millimeter wave sources. New receiver configurations have been fabricated using edge coupled devices with integrated optical guides formed from InGaAsP quaternary layers and from polyimide. Further integration of our new polymer optical modulators now permits us to make modules suitable for applications in radar and communications.

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