Abstracts

Microwave and Millimeter Wave Signal Generation Using Mode-Locked Semiconductor Lasers with Intra-Waveguide Saturable Absorbers

D.J. Derickson, R.J. Helkey, A. Mar, J.G. Wasserbauer, Y.G. Wey and J.E. Bowers. "Microwave and Millimeter Wave Signal Generation Using Mode-Locked Semiconductor Lasers with Intra-Waveguide Saturable Absorbers." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 753-756.

Microwave and millimeter wave signals can be generated using mode-locked semiconductor lasers with intra-waveguide saturable absorbers. Monolithic and external cavity devices optimized for electrical and optical signal generation are discussed along with measurements of amplitude noise, phase noise, output power, and repetition rate tunability.

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