Abstracts

Large-Signal Modulation of Semiconductor Lasers with Optical Feedback for Millimeter Wave Applications

V.M. Contarino, A.S. Daryoush and P.R. Herczfeld. "Large-Signal Modulation of Semiconductor Lasers with Optical Feedback for Millimeter Wave Applications." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 653-656.

Large-signal microwave modulation of laser diodes excite harmonics which have been exploited to achieve optical injection locking of multiple millimeter wave oscillators. Experimental results of large-signal modulation of laser diodes with optical feedback are presented. The external cavity increases the optical intensity modulation depth of both the fundamental (3.456GHz) and its harmonics by approximately 20dB.

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