Abstracts

Tunable InGaAsP Lasers for Spectral Measurements of High Bandwidth Fibers

J. Stone and L.G. Cohen. "Tunable InGaAsP Lasers for Spectral Measurements of High Bandwidth Fibers." 1982 Transactions on Microwave Theory and Techniques 30.4 (Apr. 1982 [T-MTT] (Joint Special Issue on Optical Guided Wave Technology)): 357-359.

An ultrashort-cavity thin-film laser of InGaAsP, pumped with a mode-locked and Q-switched Nd: YAG laser, has been used as the source and an InGaAs/InP p-i-n photodiode as the detector to demonstrate a system capable of measuring bandwidths of 8.5 GHz in single-mode optical fibers. The film laser emits pulses shorter than 10 ps and is tunable over 1700 Å near the chromatic dispersion minimum in fibers.

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