Abstracts

A 60 GHz 120 Mb/s QPSK fibre-radio transmission experiment incorporating an electroabsorption modulator transceiver for a full duplex optical data path

D. Wake, L. Noel, D.G. Moodie, D.D. Marcenac, L.D. Westbrook and D. Nesset. "A 60 GHz 120 Mb/s QPSK fibre-radio transmission experiment incorporating an electroabsorption modulator transceiver for a full duplex optical data path." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. I [MWSYM]): 39-42.

A high capacity millimetre-wave fibre-radio system with an elegant return path has been demonstrated for the first time using a number of novel techniques. A 60 GHz carrier signal was generated using a master/slave DFB laser configuration and a remote upconversion scheme was used to provide a fully transparent link for the data signal (120Mb/s QPSK and 20 FM TV channels). Furthermore, an electroabsorption modulator was used as a full duplex transceiver to provide an attractive strategy for the return path.

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