

Abstracts

In-band optical crosstalk in fiber-radio WDM networks

D. Castleford, A. Nirmalathas, D. Novak and R. Tucker. "In-band optical crosstalk in fiber-radio WDM networks." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1001-1004 vol.2.

We present the first experimental investigation of the impact of in-band optical crosstalk in fiber-radio networks incorporating wavelength division multiplexing. We show that crosstalk-induced power penalties are reduced when the crosstalk signal carries a different wireless frequency band, however, penalties are still observed even for perfect RF filtering of the crosstalk signal.

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