

Abstracts

Modeling Optically Prefiltered AM Subcarrier Multiplexed Systems

J. Martí and J. Capmany. "Modeling Optically Prefiltered AM Subcarrier Multiplexed Systems." 1995 Transactions on Microwave Theory and Techniques 43.9 (Sep. 1995, Part II [T-MTT] (Special Issue on Microwave and Millimeter Wave Photonics)): 2249-2256.

We provide the theoretical modeling of optically pre-filtered AM subcarrier multiplexed systems, taking into account the coherence of the optical source. This model provides an useful tool to calculate the crosstalk impairment that appears in the subcarrier systems with optical prefiltering. Simulation carried on using realistic parameters is also presented that validates the results from the theoretical analysis.

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