

Abstracts

Photonic mixers and image-rejection mixers for optical SCM systems

Lu Chao, Chen Wenyue and J.F. Shiang. "Photonic mixers and image-rejection mixers for optical SCM systems." 1997 Transactions on Microwave Theory and Techniques 45.8 (Aug. 1997, Part II [T-MTT]): 1478-1480.

Performances of subcarrier multiplexing (SCM) systems using Mach-Zehnder optical modulators for signal down conversion are studied in this paper. A photonic-image-rejection mixer is proposed to solve the image-frequency problem. The performance of the image-rejection mixer using nonideal system components is evaluated.

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