Comments and Corrections

Corrections to "Impact of the Modulation Chirp of a DEMZM on the Transmission of Signals Based on OFDM"

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In the above letter [1], equations (4) and (5) are incorrect, because the factor γ is missing in the cos(·) terms. We apologize for this error. The correct equations follow:

$$V_1 = 2\frac{\gamma\,\cos\left(\pi\,V_{bias}/V_\pi\right)+\gamma^2-\alpha\gamma\,\sin\left(\pi\,V_{bias}/V_\pi\right)}{2\gamma\,\cos\left(\pi\,V_{bias}/V_\pi\right)+1+\gamma^2}mV_\pi \tag{4}$$

$$V_2 = -2\frac{\gamma\,\cos\left(\pi\,V_{bias}/V_\pi\right)+1+\alpha\gamma\,\sin\left(\pi\,V_{bias}/V_\pi\right)}{2\gamma\,\cos\left(\pi\,V_{bias}/V_\pi\right)+1+\gamma^2}mV_\pi\,. \tag{5}$$

This error does not have any impact on the results that have been presented, since the terms changed in equations (4) and (5) are null when the dual-electrode Mach-Zehnder modulator is biased at the quadrature point.

References

[1] P. Almeida and H. Silva, "Impact of the modulation chirp of a DEMZM on the transmission of signals based on OFDM," *IEEE Photon. Technol. Lett.*, vol. 25, no. 3, pp. 283–286, Feb. 1, 2013.

Manuscript received March 28, 2013; accepted April 8, 2013. Date of current version May 15, 2013. This work was supported in part by the Portuguese Foundation for Science and Technology, through the Ph.D. Grant SFRH/BD/62647/2009.

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Digital Object Identifier 10.1109/LPT.2013.2258008