Errata

Correction to "Application of Multiple Scales Analysis and the Fundamental Matrix Method to Rugate Filters: Initial and Two-Point Boundary Problem Formulations"

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In a previously published paper by Bataineh and Asfar,[1] Fig. 5 should appear as shown here. The phase factor due to the first-order expansion in (39) that multiples the scale z_1 should be multiplied by δ. In other words, the parameter s in (40) should be multiplied by δ in order to obtain the correct form of Fig. 5 as shown here. The corrected figure is in agreement with the conclusion stated in the paper that the second-order expansion eliminates the spectral shift introduced by the first-order expansion shown in Fig. 3.

[1]M. Bataineh and O. R. Asfar, *J. Lightwave Technol.*, vol. 18, pp. 2217–2223, Dec. 2000.
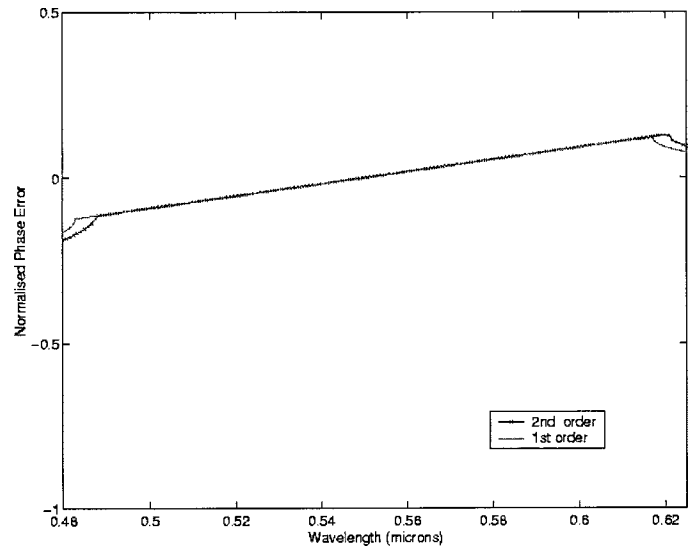

Fig.5. Normalized phase error for first- and second-order multiple scales expansions.