

Errata for “Quantization Noise Cancellation for FDC Based Fractional- N PLLs”

Christian Venerus, *Member, IEEE*, and Ian Galton, *Fellow, IEEE*

Fig. 1 and Fig. 3 in [1] erroneously include the term $e_p[n]/\Delta$. The correct figures are Fig. 1 and Fig. 3 in this errata.

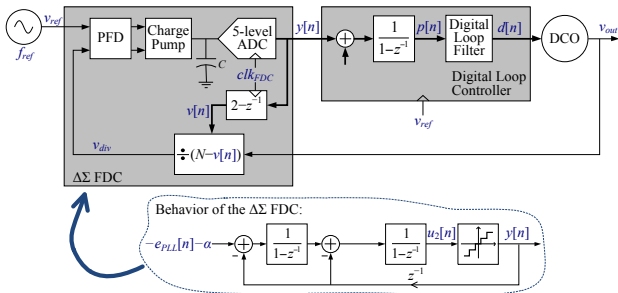


Fig. 1. Second-order $\Delta\Sigma$ FDC-based fractional- N PLL (FDC-PLL).

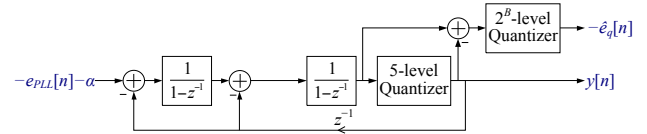


Fig. 3. Equivalent $\Delta\Sigma$ FDC signal processing for QNC FDC-PLLs.

The authors made an error in (30) of [1]. The correct equation is

$$S_{\theta_{PLL}}(f)|_{e_p} = \frac{T_{ref}}{\Delta^2} |G(f)|^2 S_{e_p}(e^{j2\pi T_{ref}f}) \quad (30)$$

The authors apologize for any confusion their mistakes may have caused.

REFERENCES

- [1] C. Venerus, I. Galton, “Quantization Noise Cancellation for FDC-Based Fractional- N PLLs,” *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 62, no. 12, pp. 1119-1123, December 2015.