Comments and Corrections

Corrections to "A Discrete-Time Model for the Design of Type-II PLLs With Passive Sampled Loop Filters"

HROUGH NO FAULT OF THE AUTHORS, several typesetting errors were made in the final production phase of [1]. Corrections of these errors are as follows:

1. Equation (2) should be:

$$F_{SLF}(z) = K \frac{(1 - \gamma_1 z^{-1})(1 - \gamma_2 z^{-1})(1 - \gamma_3 z^{-1})}{(1 - z^{-1})(1 - \beta_2 z^{-1})(1 - \beta_3 z^{-1})}$$

- 2. The sentence immediately following (4) should refer to $T(e^{j\omega T_{\rm ref}})$ instead of $T(e^{j\omega}T_{\rm ref})$.
- 3. Equations (6)–(8) should refer to ϕ_{pll} instead of ϕpll .
- 4. The last term in (21) should be $\phi_{ref}(\tau_n)$ instead of $Q_{ref}(\tau_n)$.
- 5. The left side of the second equation in Step 1 of Appendix A on Page 273 should be $p_{2,\Gamma}$.
- 6. In (32), $\phi_{\text{ctrl}}(t_0 + \Delta t)$ should be:

$$\phi_{\text{ctrl}}(t_0 + \Delta t) = r_{4,1}(\Delta t)q_T(t_0) + r_{4,2}(\Delta t)q_s(t_0) + r_{4,3}(\Delta t)q_x(t_0) + \phi_{\text{ctrl}}(t_0)$$

7. In (47), K_{Γ} should be:

$$K_{\Gamma} = \frac{1}{(C_p(1-\Gamma) + C_s + C_x)(p_{1,\Gamma} - p_{2,\Gamma})}$$

- 8. In (47), all instances of the exponential should be either $e^{tp_{1,\Gamma}}$ or $e^{tp_{2,\Gamma}}$
- 9. In (47), the first term in the expression for $h_{4,3}(t)$ should be $I_{x,s,\Gamma}t$.
- 10. Equation (49) should be:

$$q_{p_A}(t_0) = [q_T(t_0) - q_s(t_0) - q_x(t_0)]\lambda$$

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$$q_{p_B}(t_0) = [q_T(t_0) - q_s(t_0) - q_x(t_0)](1 - \lambda)$$

11. The first equation in Step 5 of Appendix A on Page 274 should be:

$$\mathbf{A} = \mathbf{H_{op}}(t_{op1} + t_{op2})\mathbf{H_{cl}}(t_{cl})$$

12. The first equation in Step 7 of Appendix A on Page 274 should be:

$$\mathbf{C}_i = \begin{bmatrix} 0 & 0 & 0 & 1 \end{bmatrix} \mathbf{D} \left(t_{\text{cl}} + t_{\text{op2}} + \frac{i - d}{L} T_{\text{ref}} \right)$$

13. The third equation in Step 7 of Appendix A on Page 274 should be:

$$d = \left\lfloor \frac{t_{\rm cl} + t_{\rm op2}}{T_{\rm ref}} L \right\rfloor$$

- 14. In (51), the term after the first equal sign should be $C_x V_x(s)$ instead of $C_x V_x(x)$.
- 15. Equation (54) should be:

$$h_3(t) = KC_x[(p_1 - p_2) + p_2e^{p_1t} + p_1e^{p_2t}]$$

16. Equation (55) should be:

$$r_{4,i}(\Delta t) = \frac{1}{C_x} \int_0^{\Delta t} r_{3,i}(\tau) d\tau$$

17. The word "Noble" should be capitalized in the last paragraph of the first column of Page 273.

REFERENCES

[1] K. J. Wang and I. Galton, "A discrete-time model for the design of type-II PLLs with passive sampled loop filters," *IEEE Trans. Circuits Syst. I, Reg. Papers*, vol. 58, no. 2, pp. 264–275, Feb. 2011.