

Corrections to “A 0.02 mm² 59.2 dB SFDR 4th-Order SC LPF With 0.5-to-10 MHz Bandwidth Scalability Exploiting a Recycling SC-Buffer Biquad”

P. V. Ananda Mohan, Yaohua Zhao, Pui-In Mak,
Rui P. Martins, and Franco Maloberti

In the above paper [1], the authors found that the z -domain transfer function in (3) should be corrected as

$$\frac{V_{outa,b}(z)}{V_{in}(z)} = \pm \frac{(1 - \alpha_1)(1 - \alpha_2)z^{-2}}{\alpha_1 z^{-2} - (2\alpha_1 + \alpha_2 - \alpha_1\alpha_2)z^{-1} + 1}$$

Manuscript received July 27, 2015; accepted August 10, 2015. Date of publication September 03, 2015; date of current version September 24, 2015.

P. V. Ananda Mohan is with the Centre for Development of Advanced Computing, Bangalore 560 038, India (e-mail: anandmohanpv@live.in).

Y. Zhao and P.-I. Mak are with the State-Key Laboratory of Analog and Mixed-Signal VLSI and Faculty of Science and Technology, Department of Electrical and Computer Engineering, University of Macau, Macao, China.

R. P. Martins is with the State-Key Laboratory of Analog and Mixed-Signal VLSI and Faculty of Science and Technology, Department of Electrical and Computer Engineering, University of Macau, Macao, China, and also with the Instituto Superior Técnico, Universidade de Lisboa, Lisbon 1049-001, Portugal (e-mail: pimak@umac.mo).

F. Maloberti is with the Department of Electrical Engineering, University of Pavia, 27100 Pavia, Italy.

Digital Object Identifier 10.1109/JSSC.2015.2468713

where $V_{outa}(z)$ goes with negative sign and $V_{outb}(z)$ goes with positive sign. As a result, the s -domain transfer function in (4) should be modified as

$$\frac{V_{outa,b}(s)}{V_{in}(s)} = \pm \frac{1}{s^2 T_c^2 \frac{c_{i1}}{c_{s1}} \left(\frac{c_{i2} + c_{s2}}{c_{s2}} \right) + s T_c \frac{c_{i2}}{c_{s2}} + 1}$$

with

$$\omega_n = \frac{f_{clk}}{\sqrt{\frac{c_{i1}}{c_{s1}} \left(\frac{c_{i2} + c_{s2}}{c_{s2}} \right)}} \quad \text{and} \quad Q = \sqrt{\frac{c_{i1}}{c_{s1}} \frac{c_{s2}(c_{i2} + c_{s2})}{c_{i2}^2}}.$$

REFERENCES

- [1] Y. Zhao, P.-I. Mak, R. P. Martins, and F. Maloberti, “A 0.02 mm² 59.2 dB SFDR 4th-order SC LPF with 0.5-to-10 MHz bandwidth scalability exploiting a recycling SC-buffer biquad,” *IEEE J. Solid-State Circuits*, vol. 50, no. 9, pp. 1988–2001, Sep. 2015.