

عنوان مقاله:

Noise Analysis of Auto-Reset Switched Capacitor Circuits

محل انتشار:

چهارمین کنگره بین المللی مهندسی برق، کامپیوتر و مکانیک (سال: 1399)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Thermal noise is one of the most important limiting factors on the performance of Switched-Capacitor (SC) circuits. Auto-Reset Switched Capacitor (AR-SC) structure imposes an extra serial switch to the integrating capacitor which seems increase the thermal noise power in comparison with traditional SC circuits. Reported improvements of AR-SC would be considered in company with noise analysis. Noise analysis of the AR-SC-Integrator and a second order AR-SC-BPF (Band Pass Filter) are presented and compared to the corresponding conventional SC circuits. Analytical results are validated by MATLAB and HSPICE.

کلمات کلیدی:

Thermal noise; Switched capacitor circuit; Time domain noise analysis

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