

A Novel Mixed-Mode OTA-C Filter

Abuelma'atti, MT; Bentrchia, A

FACHVERLAG SCHIELE SCHON, FREQUENZ; pp: 157-159; Vol: 57

King Fahd University of Petroleum & Minerals

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Summary

A new mixed-mode biquad circuit is presented. The circuit uses six operational transconductance amplifiers (OTAs), two grounded capacitors and can realize lowpass, highpass, bandpass, notch, lowpass notch, highpass notch and allpass responses from the same topology. The circuit can be driven by voltage or current and its output can be voltage or current. The parameters $\omega(o)$ and $\omega(o)/Q(o)$ enjoy independent electronic tunability. Simulation results are included.

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