A Novel Current-Mode OTA-C Universal Filter


Abstract
A novel current-mode biquad circuit is presented. The circuit uses two single-output-, one multiple-output-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 parameters $\omega_0$ and $\omega_0/Q_0$ enjoy independent electronic tunability. Simulation results are included.