In this paper, a new current-mode multifunction filter based on current differencing transconductance amplifier (CDTA) is presented. The proposed filter employs two current differencing transconductance amplifier (CDTA) and only two passive elements to realize lowpass and bandpass filter functions. The proposed filter have been tested with PSPICE simulation program. PSPICE simulation result confirms the theoretical analysis. The active and passive sensitivities are quite low.

References


Index Terms

Computer Science
Signal Processing
Keywords
Current Differencing Transconductance Amplifier  Current-mode Circuits  Multifunction  Signal Processing