Abstract

In this paper, a current-mode all-pass filter employing single multi-output dual-X second-generation current conveyor, a grounded resistor and a grounded capacitor is proposed. The circuit is as good as ideal for current-mode cascading by possessing low input and high output impedances. The use of grounded passive components makes the circuit, ideal for IC implementation. The effect of non-idealities and parasitics associated with the real MO-DXCCII implementation is also considered. The theoretical results are validated through PSPICE simulation program using 0.35µm CMOS process parameters.
based on minimal components,


Index Terms
Computer Science
Digital Signals

Keywords
Active filters  current conveyor  all-pass filter  analog signal processing.