Abstract

This paper presents the design and implementation of sharpening of maximally flat cascaded integrator comb compensation filters. The modified sharpened cascaded integrator comb compensation filter is used to improve magnitude response and gain. For wide-band compensation fourth-order linear phase filters is considered. The decimation factor of CIC filter is D and number of adders are depends upon decimation factor D. The compensation filter is a multiplier less design which works at low rate. The comparison within some methods reported in the literature is provided.

References

Improved Maximally Flat Wideband CIC Compensation Filter using Sharpening Technique


**Index Terms**

Computer Science  
Circuits And Systems

**Keywords**

Cascaded Integrator Comb Filters  
Compensation  
Decimation  
Finite Impulse Response filter  
Sharpening