Decimation Lowpass Filters for Sigma-Delta Modulators

By Rüdiger Kusch

Diplom.De Dez 2002, 2002. Taschenbuch. Book Condition: Neu. 211x149x15 mm. Neuware - Scholarly Research Paper from the year 1998 in the subject Electrotechnology, grade: 1,0, Technical University of Braunschweig (Elektrotechnik), language: English, abstract: Inhaltsangabe:Abstract: The purpose of this thesis is to compare several filter topologies used for the decimation of sigma-delta modulated digital signals. The goal is to present optimized filter architectures with regard to an efficient VLSI implementation. A fifth-order 1-bit sigma-delta modulator using local feedback techniques will be considered as the front-end A/D converter. The subsequent digital filter reduces the sampling rate by a factor of 32. The decimation filter must guarantee a narrow transition band between 0.5 and 0.55 and stopband attenuation of 100dB. Chapter 1 provides a brief introduction into the principles of digital signal processing. The considerations are focused on FIR filters due to the requirements for acoustic applications. Chapter 2 illustrates the proposed overall structure and the design flow. The objective of chapter 3 is to present the principles of oversampling data converters using sigma-delta techniques. The 5V fifth-order SD-modulator with 90dB dynamic range (SNR+THD) will be presented, which has been fabricated in 1.2µm CMOS technology. For the sake of simplicity and robustness, a...

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