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## low sensitivities and roundoff pdf

FIR Filter Structures Having Low Sensitivity and Roundoff Noise ANIL MAHANTA, MEMBER, IEEE, RAMESH C. AGARWAL, MEMBER, IEEE, AND SUHASH C. DUTTA ROY  
A class of structures for FIR filters is presented, which exhibits reduced coefficient sensitivity and superior roundoff noise properties as compared to the direct form realization.

## FIR Filter Structures Having Low Sensitivity and Roundoff

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order sensitivity at frequencies  $\omega = \omega_0$ : In addition, if we have a number of closely spaced points in the passband where  $|G(e^{j\omega})| = 1$ , then we can expect low sensitivity over the passband. It is therefore clear that the fundamental requirement for low pass-band sensitivity is structural boundedness.

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## Low sensitivities and roundoff noise digital oscillators

bring about a dramatic reduction in the output roundoff noise [4]-[8]. Unfortunately, however, the sensitivity to coefficient quantization is not affected by ESS and, as is ... LOW-SENSITIVITY DIGITAL FILTER STRUCTURES 1003 TABLE V NUMERATOR AND DENOMINATOR POLYNOMIALS OF SENSITIVITIES Case N,+z)  $N_m(z) D(z) = 1 + m_1(z-D) - m_2$

## Low-Sensitivity Digital-Filter Structures which are

They are automatically internally scaled and have low passband sensitivity. In spite of the fact that they are in the form of a nonrecursive cascade, we do not encounter serious roundoff noise problems. Indeed, the noise-variance gain is bounded above by the filter order, exactly as in the direct-form structure [19], [20].

## IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS, VOL. CAS-33, NO

YLI-KAAKINEN AND SARAMAKI: DESIGN OF VERY LOW-SENSITIVITY AND LOW-NOISE RECURSIVE FILTERS 907 Fig. 1. Proposed recursive filter structure. The  $A_k(z)$  and  $B_k(z)$  are stable all-pass filters. to exceed the amplitude criteria to provide some tolerance for the coefficient quantization. The second algorithm of

## Design of very low-sensitivity and low-noise recursive

Expressions are derived for the sensitivity and the roundoff noise gain of the closed loop transfer function of a system when the state estimate feedback controller is implemented with a finite word length and when the computations are performed in finite precision, The set of state space models minimizing either the sensitivity or the roundoff noise gain is computed.

### **Sensitivity and Roundoff Noise Optimization of a State**

A systematic and exhaustive procedure has been de- The results of the roundoff-noise analysis are depicted in scribed for the generation of economical low-sensitivity Fig. 8(a)-(d). As can be seen, for the low-pass, high-pass, digital-filter structures which are amenable to the applica- and bandpass filters, the proposed structures with ESS ...

### **Low-sensitivity digital-filter structures which are**

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The coefficient sensitivities have been shown to be closely related to the roundoff-noise components, and hence the optimal designs also have low sensitivity properties. The limit-cycle behavior of state-space structures has been investigated for rounding and for magnitude truncation.

### **DTIC ADA065135: Synthesis of Digital Filter Structures**

G. Orlandi and G. Martinelli, "Low-sensitivity recursive digital filter structures having very low sensitivity and roundoff noise" IEEE Trans. Circuits f4 Syst.vol. CAS-31, pp. 654-656, July 1984.

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