Designing and making signal-processor circuits with internal companding, and the resulting circuits

Technology #ms91-01-01

Signal Processor Circuits with Internal Companding with Reduced Noise Sensitivity

Electrical filter or signal processor circuits with internal companding with reduced sensitivity to noise and input-output response based on conventionally specifications are described.

Companded Signal Processor Circuits for Reduced Noise

A continuous-time filter or signal processor such as companding circuit can be described by state equations for a derived state vector. The derived state vector is companded for reduced noise. The circuit is verified to be internally linear circuit by substitution.

Circuits with internal companding and with the same input-output response as that of the specified circuit can be designed using this method.

Inventors

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