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INTEGRAL NONLINEARITY OF SECOND-ORDER SINGLE-BIT SIGMA-DELTA MODULATOR

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Abstract

The simulation model of single-bit second-order sigma-delta modulator and analog-to-digital converter (ADC) based on this modulator is developed. The study of influence of all components parameters on integral nonlinearity of ADC is carried out by the model. As revealed, there are no influence of second integrator nonlinearity on ADC nonlinearity. References 16, figures 9, table 1.

Key words: sigma-Delta Modulator, Integral Nonlinearity, Error Correction.

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