



New High Frequency CFOA-Based Differential Integrator

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Abstract

A new differential integrator that uses current-feedback operational amplifier instead of voltage-mode op-amp is presented. The proposed integrator circuit uses only single current-feedback op-amp, one capacitor and six resistors. Its main advantages are that it is suitable for integration high frequency signals, and has high quality factor. Simulation results that confirm the theoretical analyses of the proposed integrator have also been obtained.

Key words: *Differential Integrator, Current-feedback op- amp, Quality Factor.*