

عنوان مقاله:

Design and simulation of current feedback op- amp using differential quartet

محل انتشار:

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خلاصه مقاله:

Analog design has long been based on the voltage signal processing. The inherent advantages of wide bandwidth, high rotation rate, low power consumption, simple circuit and a current gain of the features that today are considered. No need for this type of passive circuits using high-voltage and high-precision elements has made it possible They can be used almost entirely by using transistor design, which results in greater compatibility with current mode circuits are digital processing Set the current mode circuits, current feedback amplifiers are. interested these circuits is provided. Growing interest in the synthesis of the current circuits, mainly because of its potential benefits such as lower voltage and power consumption broader range, The internal dynamics of the wider bandwidth, circuit simpler, smaller and less complex nonlinear circuits among enthusiasts of these circuits is provided. In particular, it can be said, the need for high speed and wide bandwidth current feedback amplifier has been the engine of progress. The main advantage of this amplifier to boost the voltage in addition to the proper rotation rate, wide bandwidth and it is almost independent of the closed-loop gain. This amplifier has a structure different from that cause voltage operational amplifiers in many applications, especially for applications with low closed loop gain and the large signal voltage is superior to conventional amplifiers. In this thesis, we introduce and study the structure, design and simulation of a current feedback amplifier using technology parameters0/ 35 μm CMOSurinary offer. Class AB amplifier circuit differential quad core is. The combination of ordinary differential and differential-four circuit multiplications differential circuit. Current feedback amplifier circuit is presented using the resources1 / 65 $\pm$ v nutrition. This circuit rotation rate about100 V / μ s and closed-loop bandwidth of 30 MHz fixed offers

کلمات کلیدی:

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