

عنوان مقاله:

Simulation of CMOS RFC Operation Amplifier Circuit and Providing New Results of DC Gain

محل انتشار:

اولین همایش بین المللی مهندسی برق، علوم کامپیوتر و فناوری اطلاعات (سال: 1396)

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خلاصه مقاله:

In this paper, we re-do simulation of a recycling folded cascode (RFC) op-amp which was published by Rida S. Assaad and et all, in IEEE Journal of Solid-State Circuits. The authors presented and simulated the RFC circuit to obtain DC gain using AC analysis only. They achieved to the results that with increasing the factor of k (the ratio of cross couple transistors in RFC circuit) the DC gain can be improved. But, we criticize their work scientifically and present a contrary result. We calculate and analyze the transconductance and output resistance of RFC op-amp using both DC and AC analysis. So we propose new results and prove this fact that with increasing k (1.5

کلمات کلیدی:

RFC Op-Amp, CMOS, DC gain, DC and AC analysis

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