

## **EMPLOYING POSITIVE FEEDBACK TECHNIQUE TO IMPROVE SIMULTANEOUSLY UGBW AND GAIN FOR OP-AMPS**

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### **ABSTRACT**

This paper presents a generally practical Positive Feedback Technique to increase simultaneously UGBW and dc gain of Op-Amps. Improvement on our first two-stage design, which has a UGBW of 281MHz and a 48dB gain, leads us to the proposed topology. Analysis proves that higher UGBW and dc gain seems sensible. Simulations verify the analysis and show an increased UGBW of 1GHz and dc gain of 65dB.

**KEYWORDS:** Op-Amp, Increase UGBW, Increase Gain, Positive Feedback