

## Abstract Details

**Title:** Design and Analysis of CMOS Telescopic OTA for 180nm Technology

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**Abstract:** In this paper, different types of OTA topologies are compared for their suitability to be used in Sigma-Delta modulator. The most suitable OTA for Sigma-Delta modulator, telescopic OTA is designed and implemented. The designed telescopic OTA has gain of 52.788db, phase margin of 59.44 deg, power consumption of 61.49 $\mu$ W at a power supply of 3V.

**Keywords:** Telescopic OTA, Single stage OTA, two stage OTA, folded cascode OTA.