Abstract

A novel and simple circuit for precision rectifier using second-generation current conveyor (CCII) is presented in this article. The circuit basically uses a CCII-based voltage mode bi-phase amplifier, which has been used as full-wave and half-wave rectifiers. To switch the bi-phase amplifier from non-inverting to inverting mode, a MOSFET and a CCII-based comparator has been used. The circuit exhibits precision rectification over a wide range of operation and can also be implemented using commercially available ICs such as the AD844. The proposed circuits have been simulated using CMOS implementation of current conveyor with effective results.

References

Biphase Amplifier based Precision Rectifiers using Current Conveyors

Electronics, 89(3), 259-265.

**Index Terms**

Computer Science 
Circuits And Systems
Keywords
Current Conveyors  Bi-phase Amplifier  Precision Rectifiers