

Design and Implementation of a Radiation Hardened High Output Current Transconductance Amplifier

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Start: 21.06.2018 | End: 20.12.2018

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Abstract



Zusammenfassung



Acknowledgments



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1.1 Novel DC Current Transformer

2 Theory

2.1 The Operational Transconductance Amplifier

2.1.1 Different Topologies

Conventional Current Mirror OTA

Super Class AB OTA

Folded Cascode OTA

2.2 The Operational Amplifier

2.2.1 Miller Compensation OP AMP

2.2.2 OP AMP as a Voltage Buffer



3 Design and Implementation

3.1 The Gm/Id Methodology

3.2 OTA Design

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5 Conclusion

5.1 Summary of Results

5.2 Outlook



A Appendix

