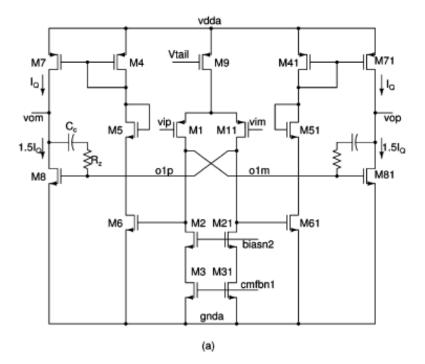


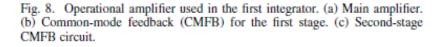
Fully Differential Opamp Design Common-mode Feedback Examples

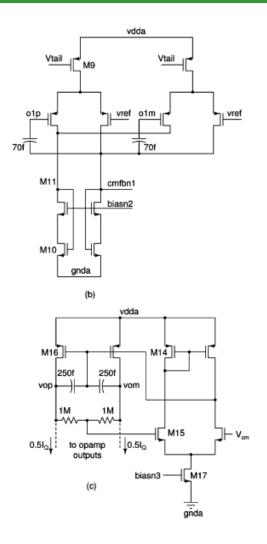
Vishal Saxena, Boise State University (vishalsaxena@boisestate.edu)

A Power Optimized Continuous-Time $\Delta\Sigma$ ADC for Audio Applications

Shanthi Pavan, Nagendra Krishnapura, Ramalingam Pandarinathan, and Prabu Sankar







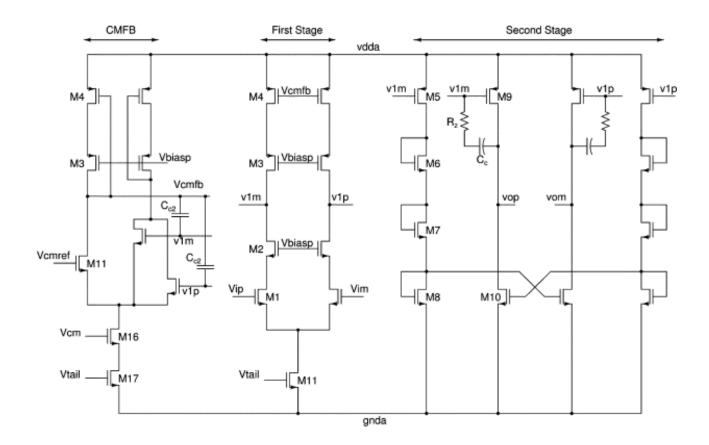
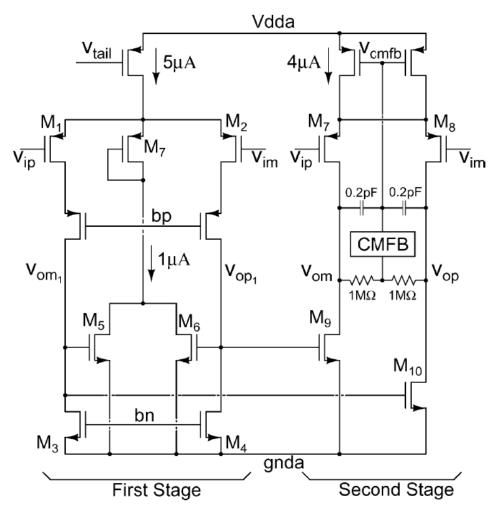


Fig. 9. Schematic of the operational amplifier used in the second and third integrators and the summing amplifier.

Power Reduction in Continuous-Time Delta-Sigma Modulators Using the Assisted Opamp Technique

Shanthi Pavan, Member, IEEE, and Prabu Sankar



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A 16 MHz BW 75 dB DR CT $\Delta\Sigma$ ADC Compensated for More Than One Cycle Excess Loop Delay

Vikas Singh, Nagendra Krishnapura, Shanthi Pavan, Baradwaj Vigraham, Debasish Behera, and Nimit Nigania

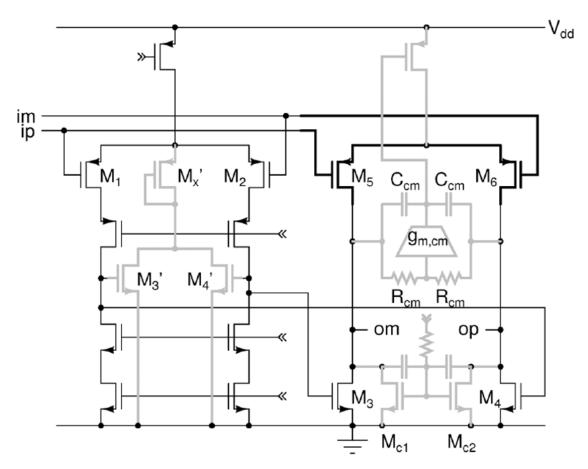
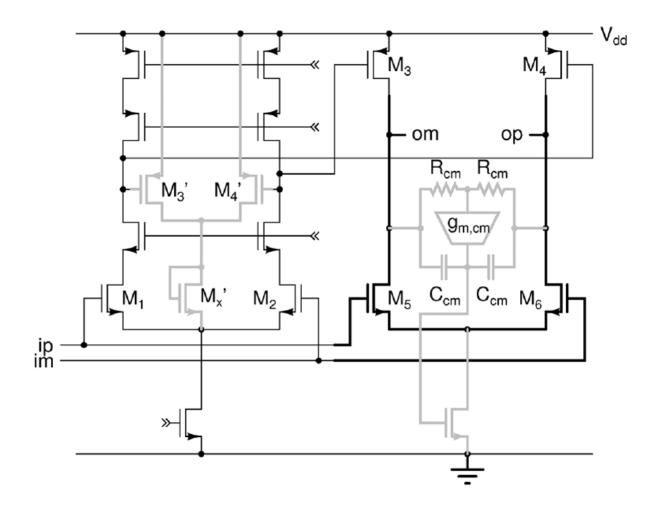


Fig. 12. Feedforward compensated opamp used in the first integrator. Feedforward path is shown in bold, and CMFB paths are shown in gray.



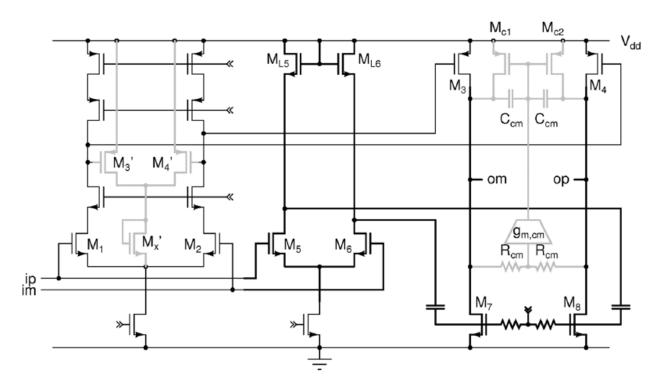


Fig. 14. Feedforward compensated opamp used in the summing amplifier. Feedforward path is shown in bold, and CMFB paths are shown in gray.

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7.4 A 500MHz CMOS Anti-Alias Filter using Feed-Forward Op-amps with Local Common-Mode Feedback

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