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The CS r_M is R_S in series with the drain resistance, referred to the source. Drain resistance is r_{o1} in series with the CG drain circuit referred to its source, or $(r_{o2} + R_L) / (\mu^2 + 1)$. When these resistances are referred to the CS source, the denominator of (4.21), r_M , results.

Cascode Amplifier - an overview | ScienceDirect Topics

4 Gain-Boosted Telescopic Cascode Op Amp V_{DD} V_{OUT} T_C L V_{B2} V_{B3} V_{SS} V_{B5} M_1 M_2 M_3 M_4 M_5 M_7 M_6 M_8

Advantages: Significant increase in dc gain Limitations: • Signal swing ($4V_{SAT} + V_T$ between V_{DD} and V_{SS}) • Reduction in GB power efficiency - some current required to bias “ A ” amplifiers ...

Lecture 10: Folded-Cascode Amplifiers Current Mirror Op Amps

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