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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.

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Topics

4 Gain-Boosted Telescopic Cascode Op Amp  $V_{DD}$   $V_{SS}$   
OUT CL  $V_{B2}$   $V_{B3}$   $V_{S1}$   $V_{B5}$  M1 M2 A1 A2 A3 A4  
IT VIN M1 M2 M3 M4 M5 M7 M6 M8

Advantages: Significant increase in dc gain Limitations::

- Signal swing ( $4V_{DSAT} + V_T$  between  $V_{DD}$  and  $V_{SS}$ )
- Reduction in GB power efficiency - some current required to bias "A" amplifiers ...

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Lecture 10: Folded-Cascode Amplifiers Current Mirror  
Op Amps

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