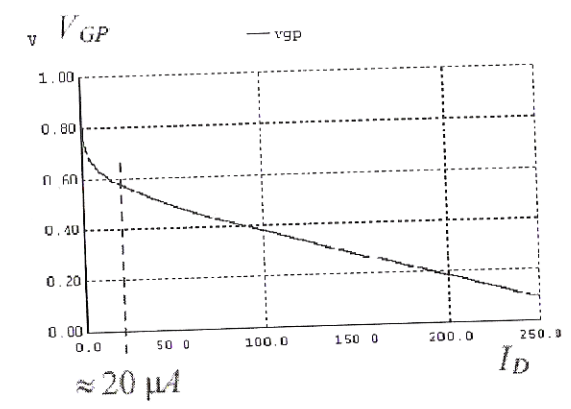
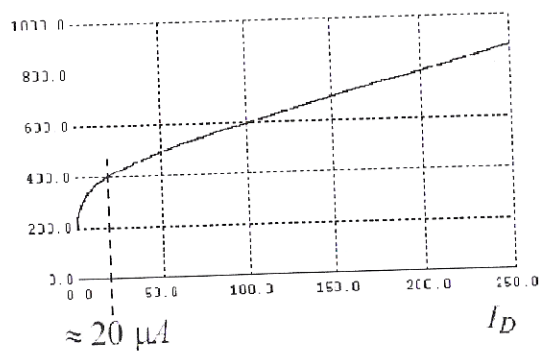


Basic Biasing for power & speed

11:54



- 1) f_T
- 2) overdrive
- 3) current

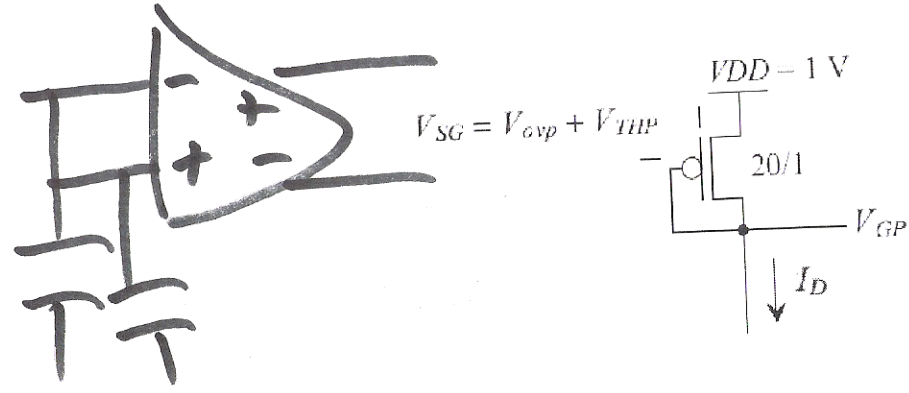


Figure 26.1 Gate-source voltages plotted against drain currents.

quiescent current $\rightarrow I$

$$C \frac{dV}{dt} = I$$

load \leftarrow

1)

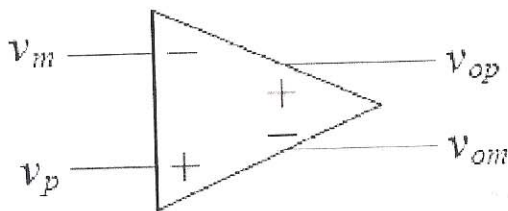
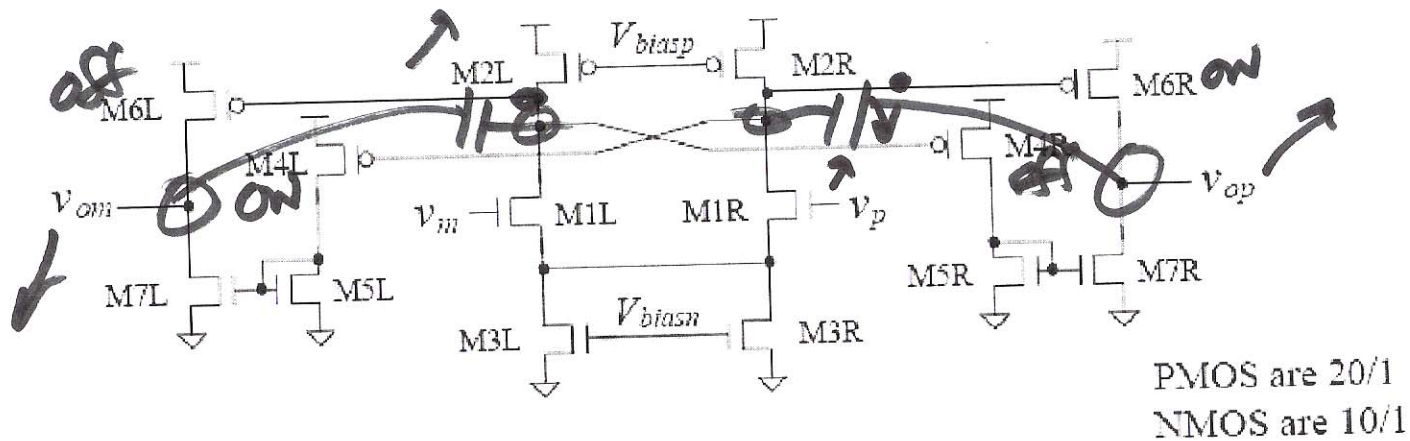


Figure 26.2 A two-stage fully-differential op-amp. Compensation and CMFB are not shown. Output stage operates class AB. See discussion in the next section concerning the output voltage of the diff-amp.

2)

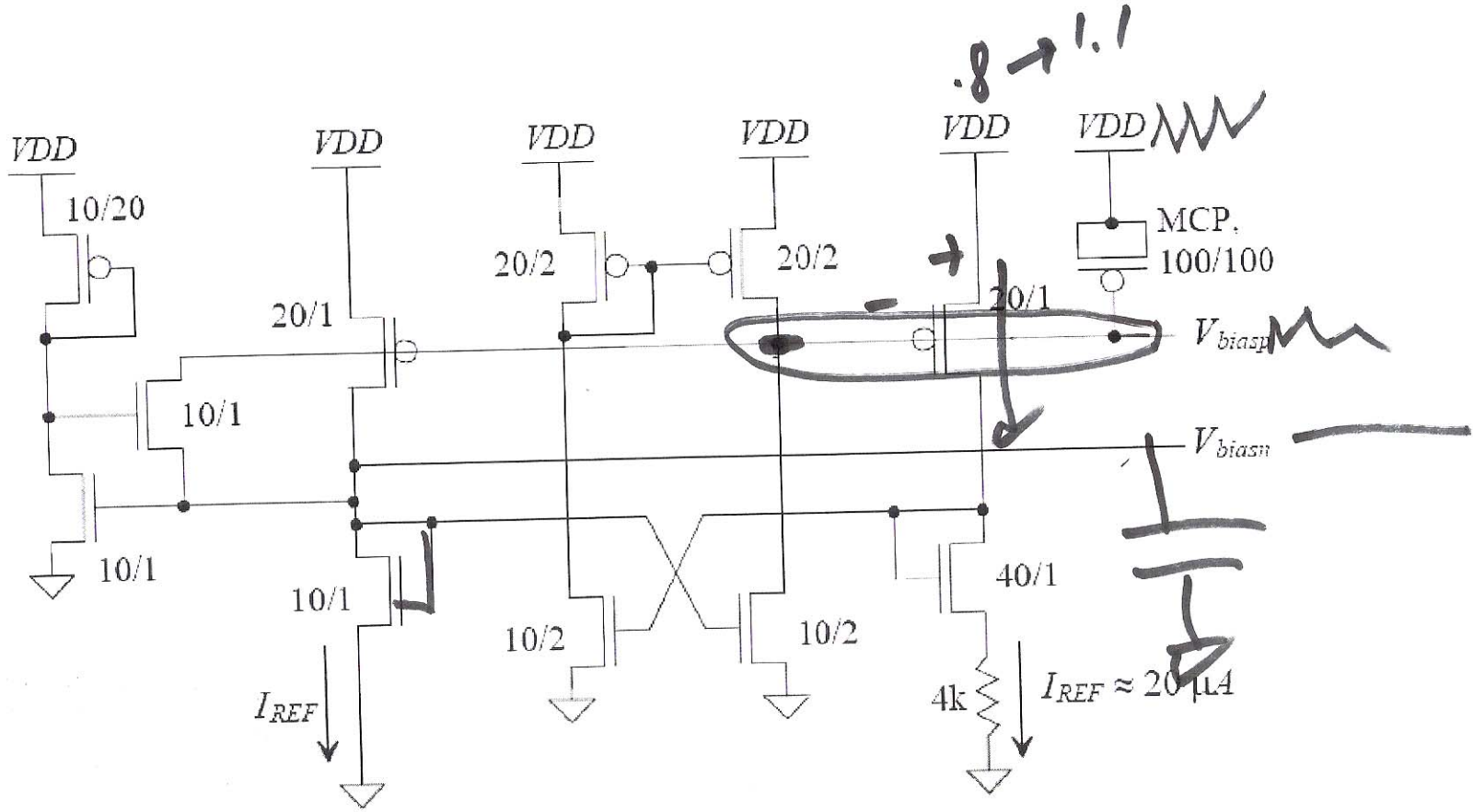


Figure 26.3 Biasing circuit used in this chapter. This bias circuit pulls approximately 50 microamps.

BmR



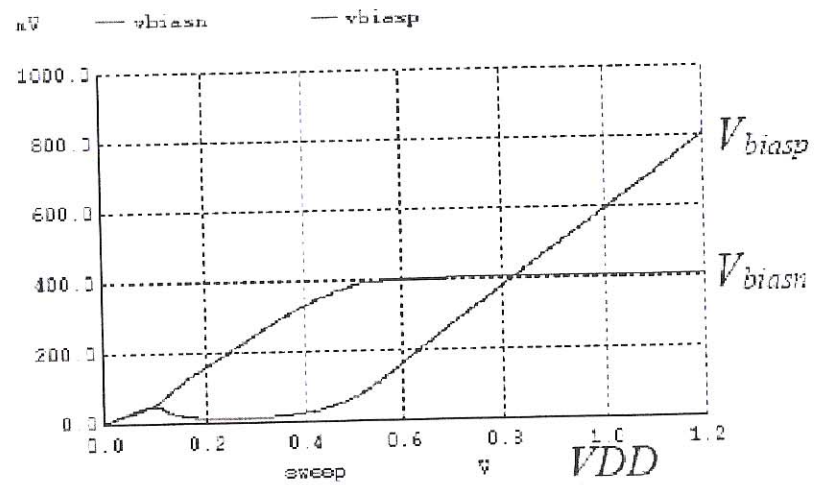
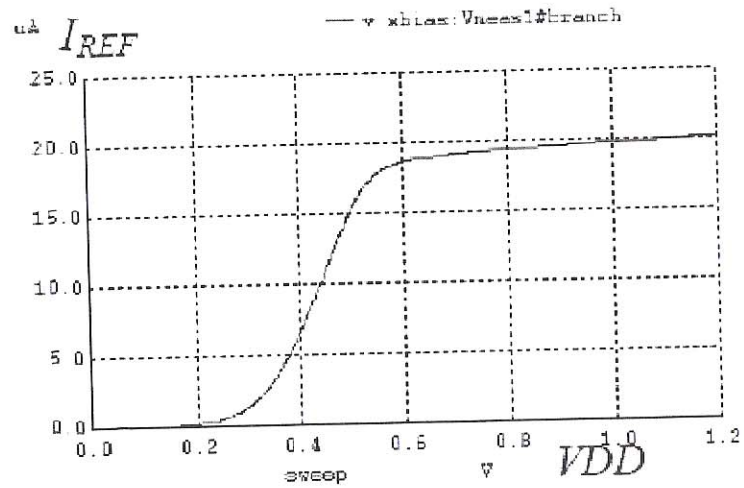


Figure 26.4 Simulating how the reference current changes with V_{DD} .

4)