

Figure 4-1

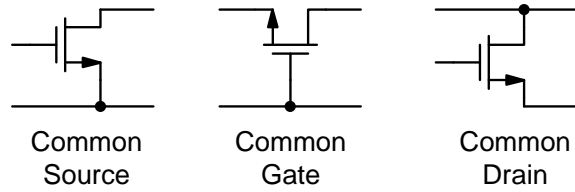


Figure 4-2

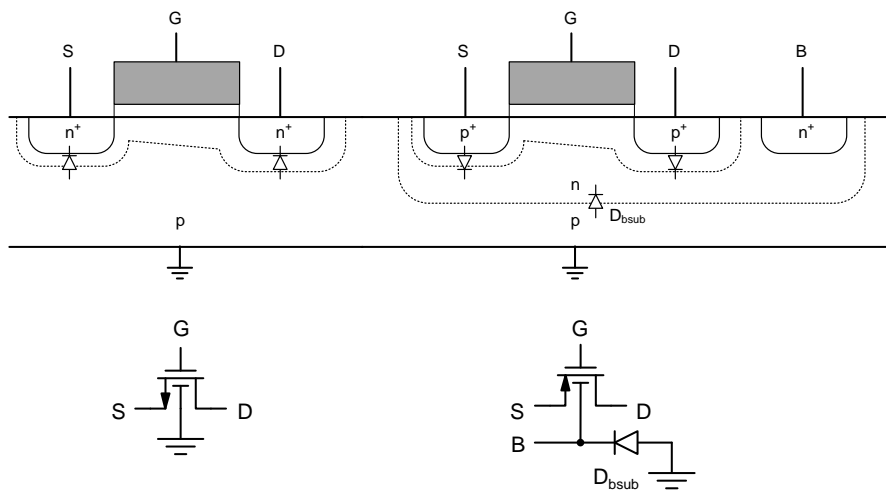


Figure 4-3

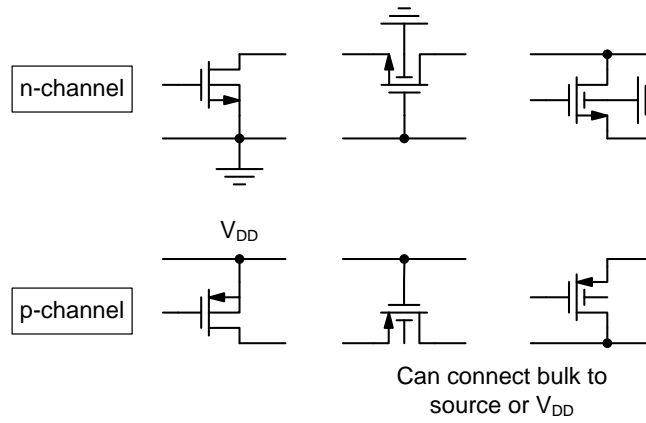


Figure 4-4

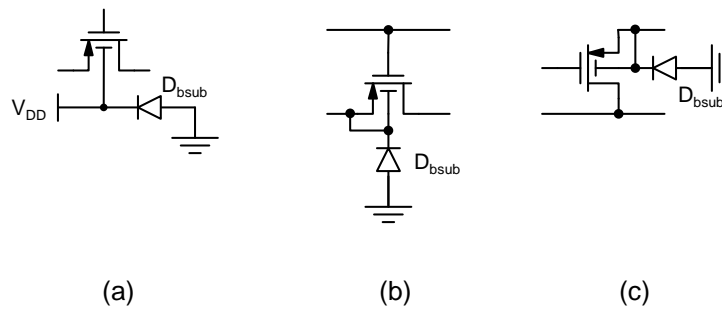


Figure Ex4-1

The diagram illustrates a well system within a rectangular boundary. On the left, a 'Well' is shown as a vertical column with a central dark grey section labeled 'G' and two side sections labeled 'S' and 'D'. The total width of this well is labeled 'W'. The central section 'G' has a width 'L', and the side sections 'S' and 'D' each have a width 'L_{diff}'. The distance from the left boundary to the left side of the well is 'X1'. To the right of the well is a 'Well Contact' represented by a vertical column with three white squares. The distance from the right side of the well to the well contact is 'X2'. The distance from the well contact to the right boundary is 'X1'. The vertical distance from the bottom of the well to the bottom of the well contact is 'X1'.

Figure 4-5

The diagram illustrates a MOSFET circuit with a source-body bias voltage V_{SB} applied between the source and body terminals. The gate voltage is V_{GS} , the drain-source voltage is V_{DS} , and the drain current is I_D . The depletion layer width is shown for two cases: $V_{SB} = 0$ (dashed line) and $V_{SB} > 0$ (solid line). The depletion layer width increases as V_{SB} increases.

Figure 4-6

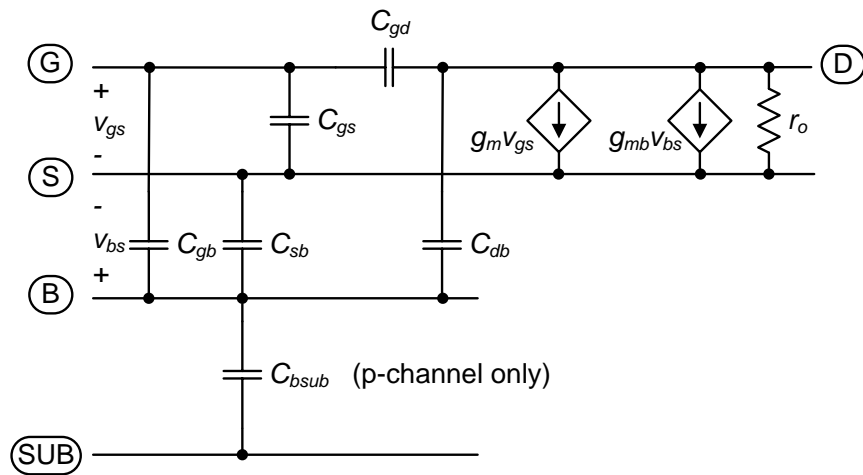


Figure 4-7

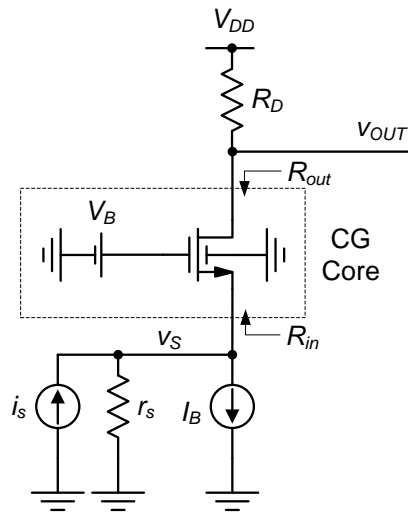


Figure 4-8

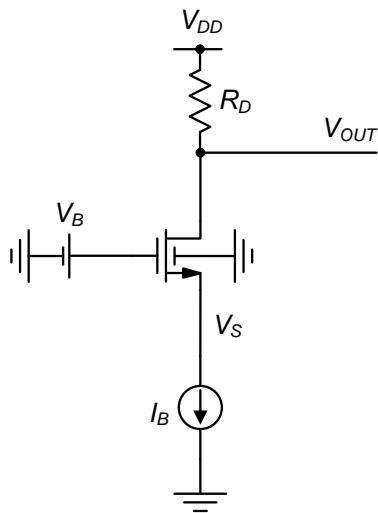


Figure 4-9

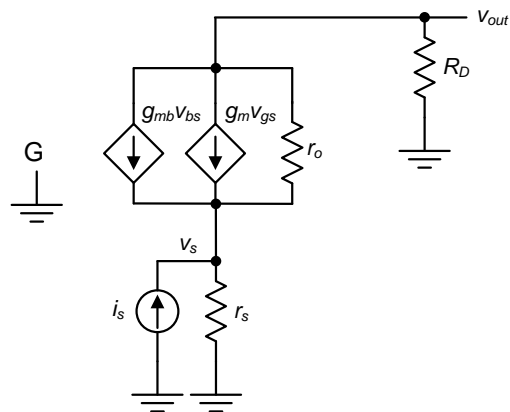


Figure 4-10

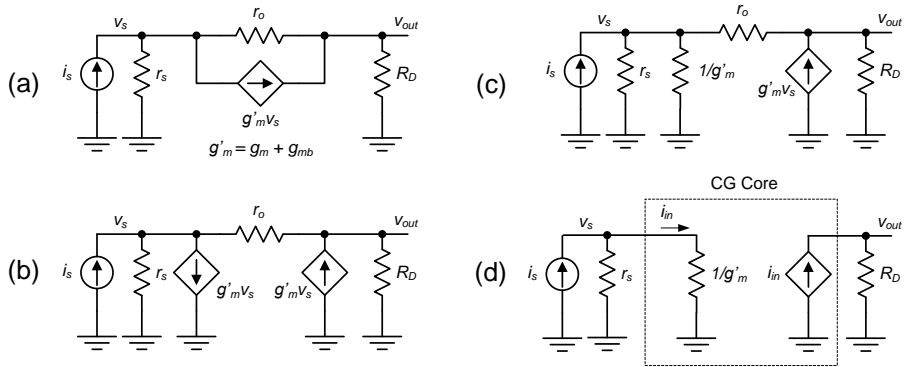


Figure 4-11

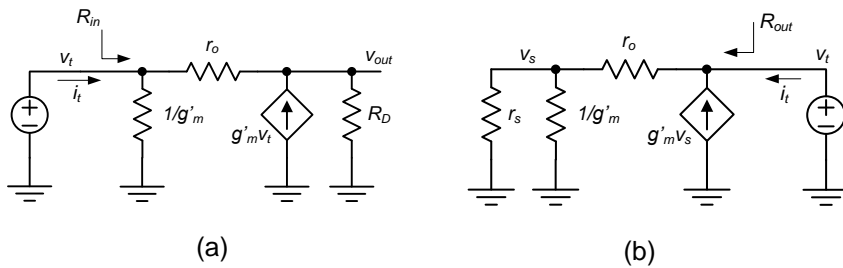


Figure 4-12

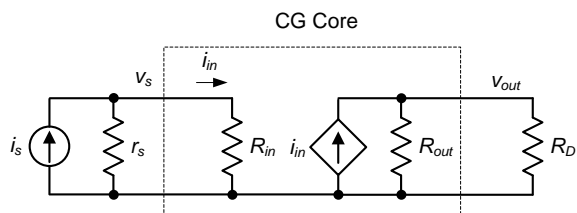


Figure 4-13

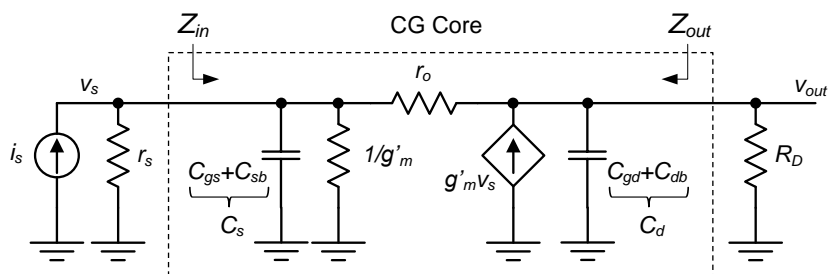


Figure 4-14

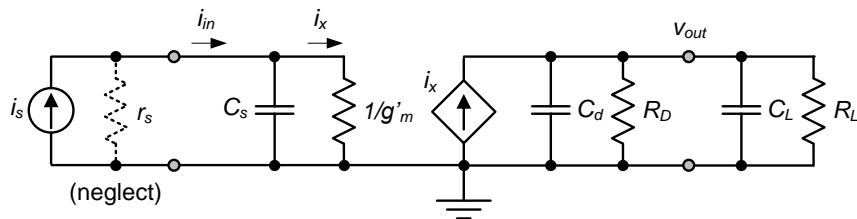


Figure 4-15

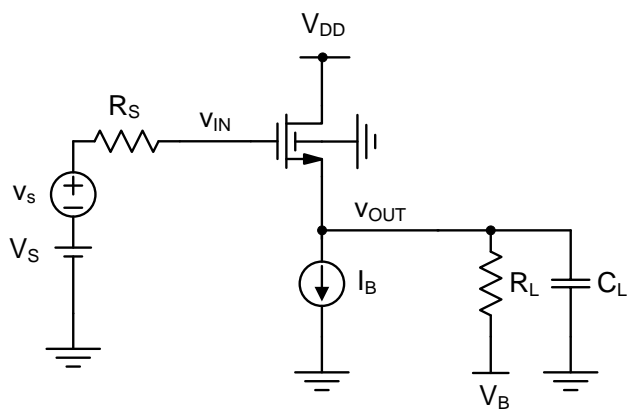


Figure 4-16

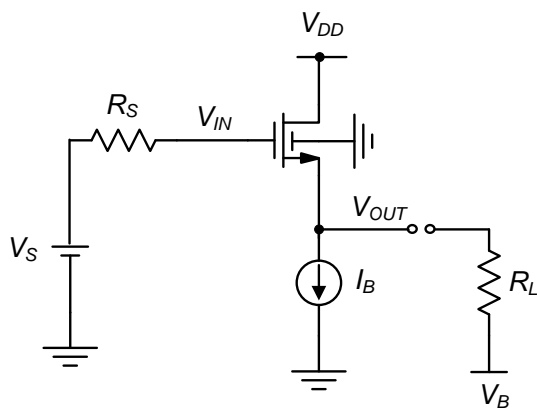


Figure 4-17

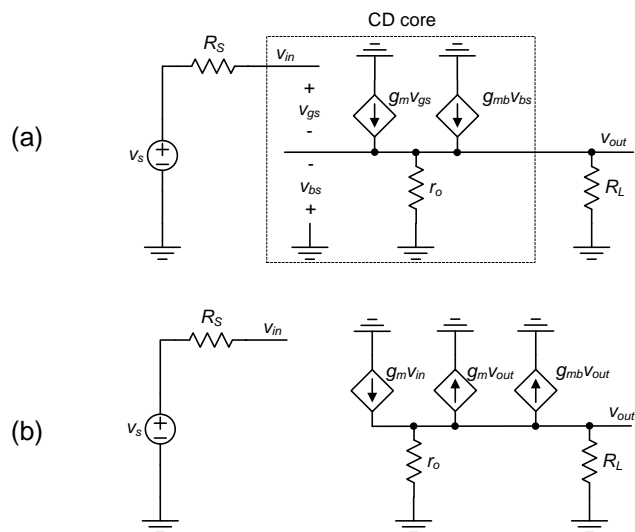


Figure 4-17 (continued)

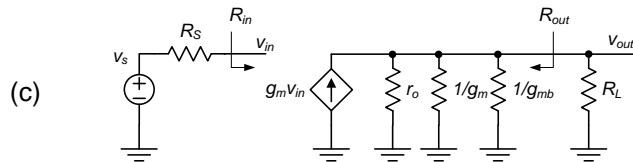


Figure 4-18

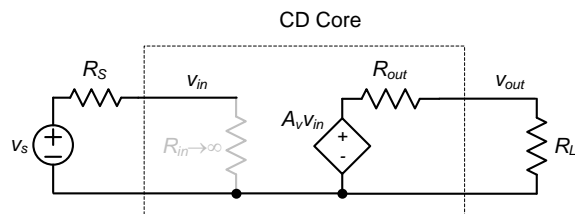


Figure 4-19

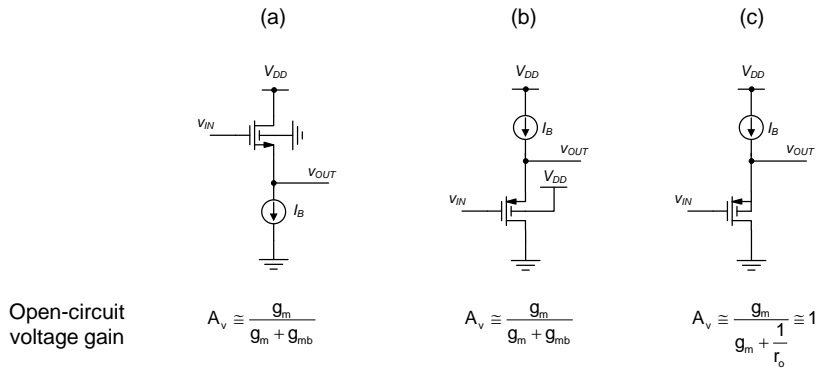


Figure Ex4-5

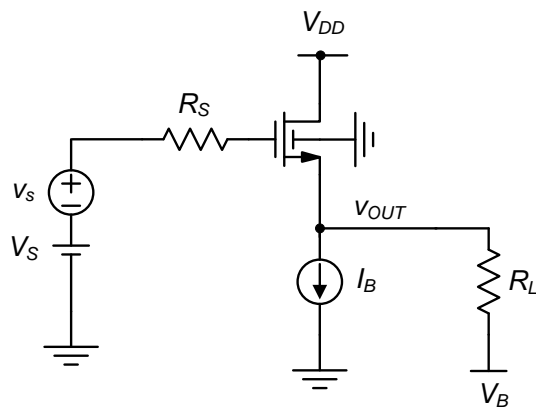


Figure 4-20

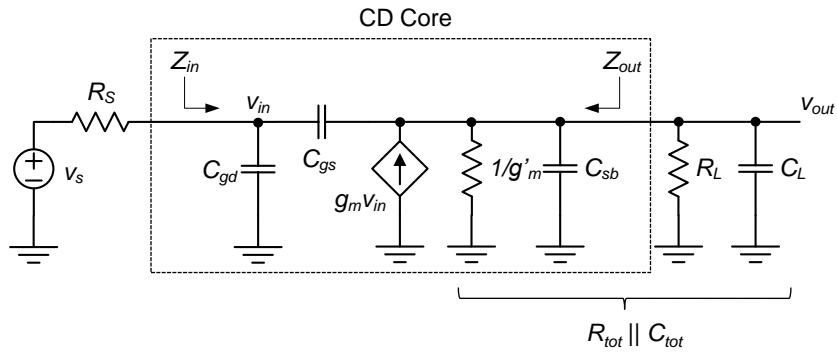


Figure 4-21

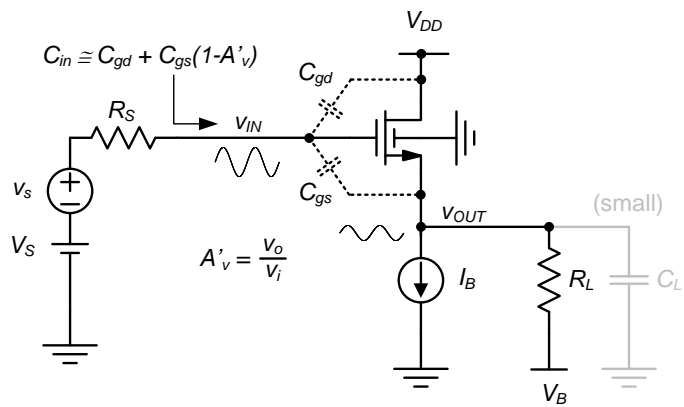


Figure 4-22

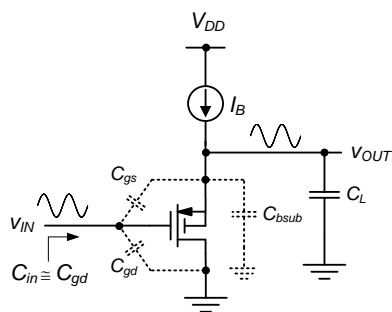


Figure 4-23

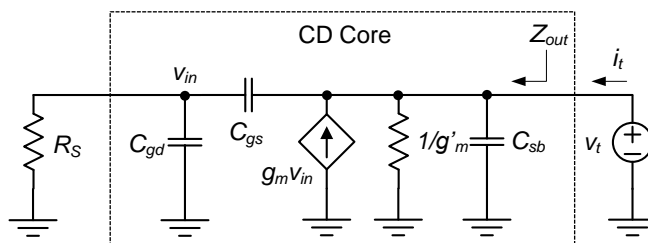


Figure 4-24

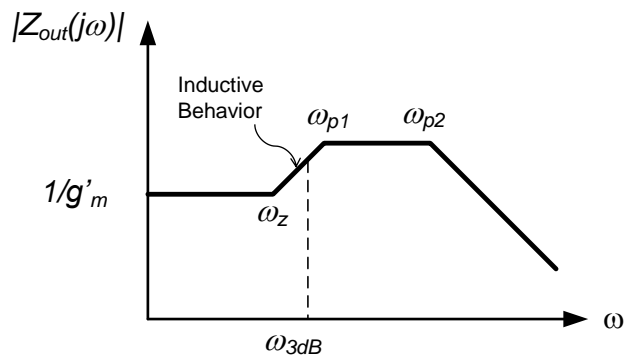


Figure 4-25

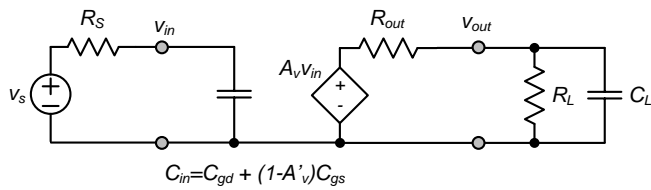


Figure 4-26

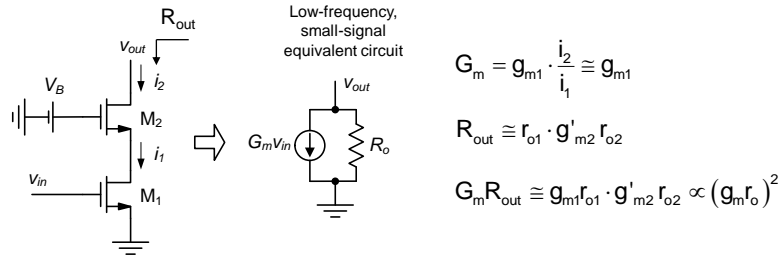


Figure 4-27

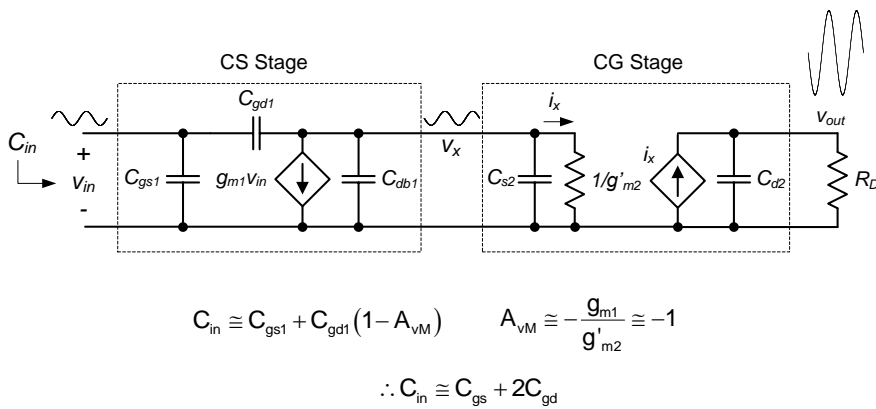


Figure 4-28

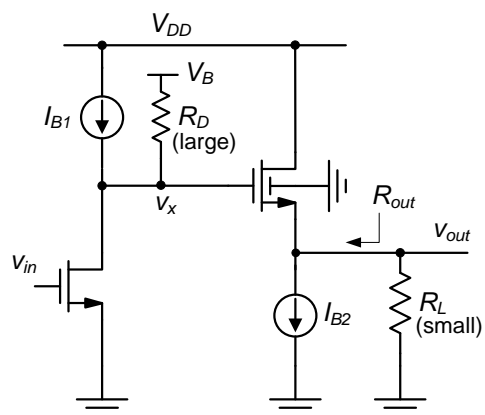


Figure 4-29

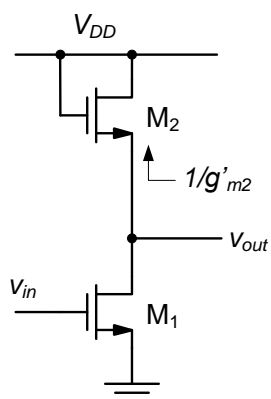


Figure 4-30

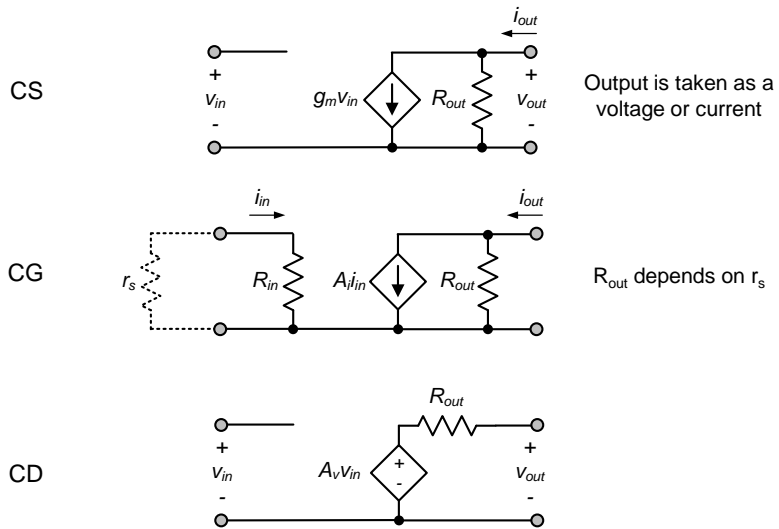


Figure P4.1

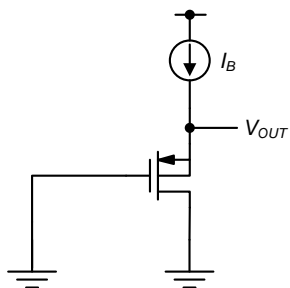


Figure P4.3

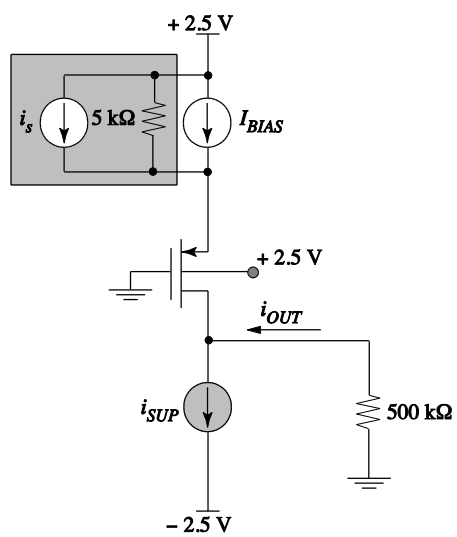


Figure P4.5

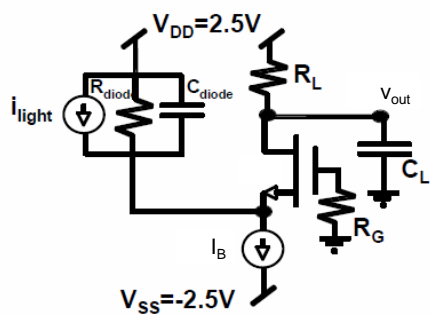


Figure P4.7

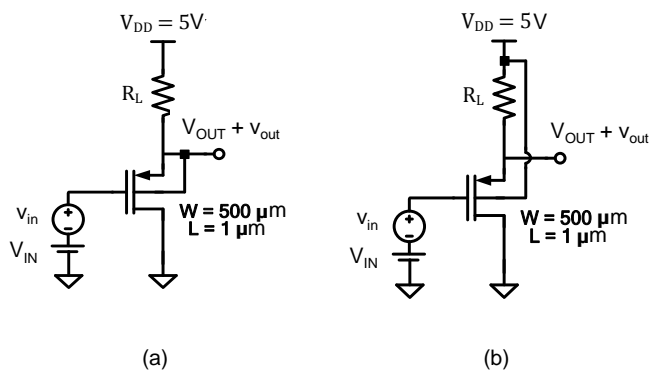


Figure P4.8

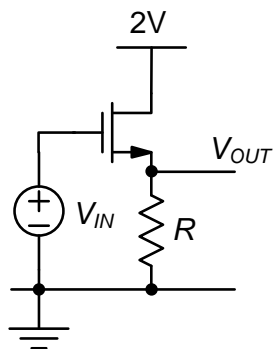


Figure P4.12

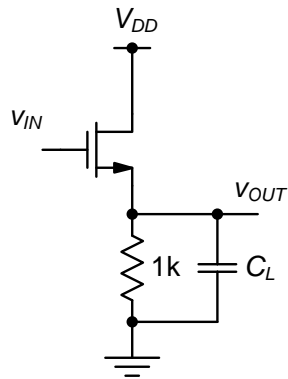


Figure P4.16

