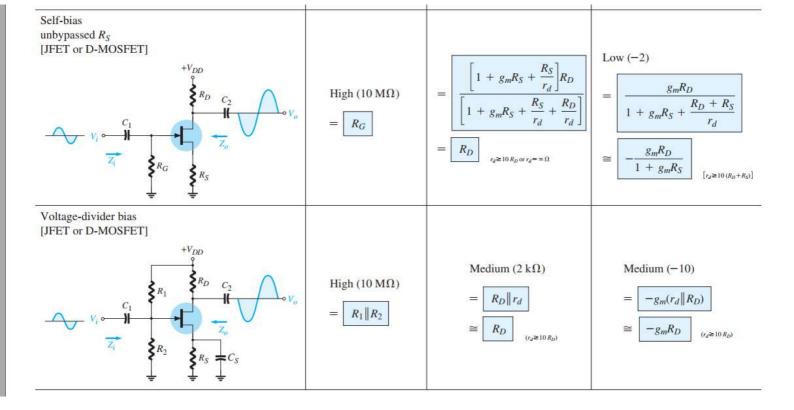


TABLE 8.1

<b>TABLE 8.1</b> $Z_{i}$ , $Z_{o}$ , and $A_{v}$ for various FET configurations			
Configuration	$Z_i$	$Z_o$	$A_{v} = \frac{V_{o}}{V_{i}}$
Fixed-bias [JFET or D-MOSFET] $*V_{DD}$ $*R_D$ $C_2$ $V_o$ $V_o$ $V_o$ $V_o$ $V_o$ $V_o$ $V_o$ $V_o$	High (10 M $\Omega$ ) $= \boxed{R_G}$	Medium $(2 \text{ k}\Omega)$ $= \boxed{R_D \  r_d}$ $\cong \boxed{R_D}_{(r_d \approx 10 R_D)}$	Medium (-10) $= \boxed{-g_m(r_d    R_D)}$ $\cong \boxed{-g_m R_D} \qquad (r_d \approx 10 R_D)$
Self-bias bypassed $R_S$ [JFET or D-MOSFET] $V_i \circ V_o$ $V_o \circ V_o$ $V_o \circ V_o$	High (10 M $\Omega$ ) $= \boxed{R_G}$	Medium $(2 k\Omega)$ $= R_D \  r_d$ $\cong R_D \ _{(r_d \approx 10 R_D)}$	Medium (-10) $= \left[ -g_m(r_d    R_D) \right]$ $\cong \left[ -g_m R_D \right]_{(r_d \ge 10 R_D)}$



## TABLE 8.1

