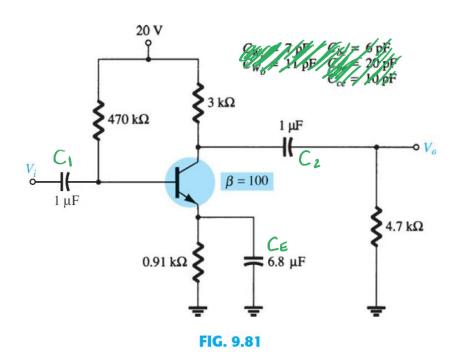
ENEE2360 CH9 Homework Problems

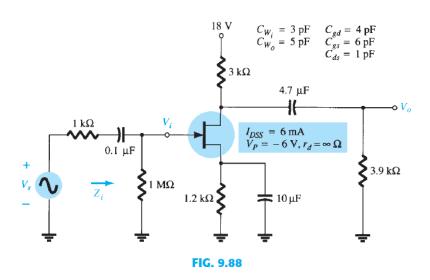
- **15.** For the network of Fig. 9.81:
 - a. Determine w hie
 - **b.** Find $A_{v_{\text{mid}}} = V_o/V_i$.

 - c. Calculate Z_i .
 d. Determine $M_{ij}M_{ij}$ for j for



*27. For the network of Fig. 9.81 with R_s and Determine f_{H_i} and f_{H_o} .

- 23. For the network of Fig. 9.88:
 - **a.** Determine V_{GS_Q} and I_{D_Q} .
 - **b.** Find g_{m0} and g_m .
 - c. Calculate the midband gain of $A_v = V_o/V_i$.
 - **d.** Determine Z_i .
 - e. Calculate $A_{v_s} = V_o/V_s$.
 - **f.** Determine f_{L_G} , f_{L_C} , and f_{L_S} .
 - g. Determine the low-cutoff frequency.



- 31. For the network of Fig. 9.88:
 - **a.** Determine g_{m_0} and g_m .
 - **b.** Find A_{ν} and A_{ν_s} in the mid-frequency range.
 - c. Determine f_{H_i} and f_{H_o} .