D 5.44 Design the circuit of Fig. P5.44 to establish a drain current of 0.1 mA and a drain voltage of +0.3 V. The MOSFET has $V_t = 0.5$ V, $\mu_n C_{ox} = 400 \,\mu\text{A/V}^2$, $L = 0.4 \,\mu\text{m}$, and $W = 5 \,\mu\text{m}$. Specify the required values for R_S and R_D .

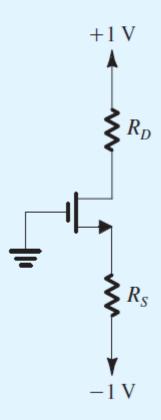


Figure P5.44