

Special Problem 4.10-4

A symmetric CMOS inverter has:

$$V_{DD} = 5.0 \text{ V}$$

$$K = 4/9 \text{ mA/V}^2$$

$$V_t = 0.5 \text{ V}$$

If $v_I = v_{IL}$, what is the drain current i_D ?

Hint: What is the drain current of the **NMOS** device if $v_I = v_{IL}$?