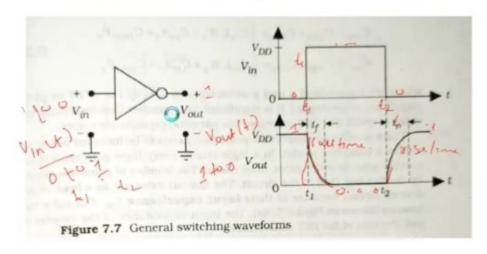
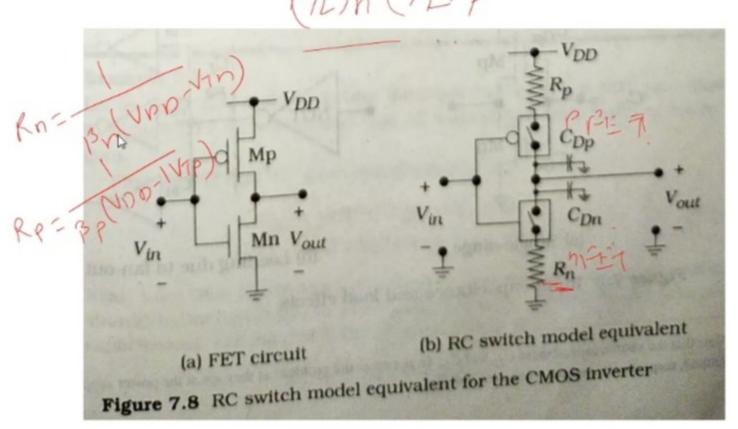
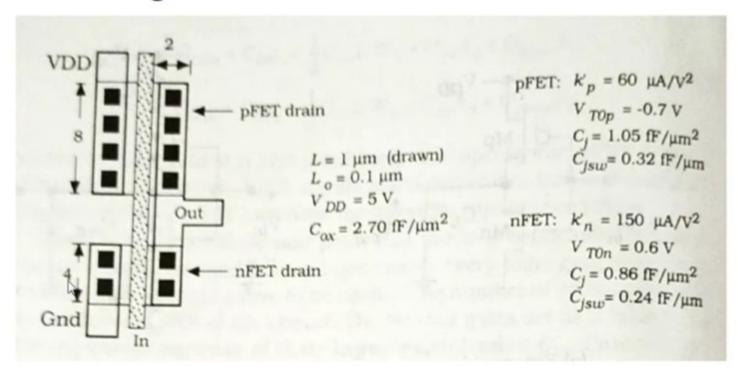
Inverter Switching Characteristics



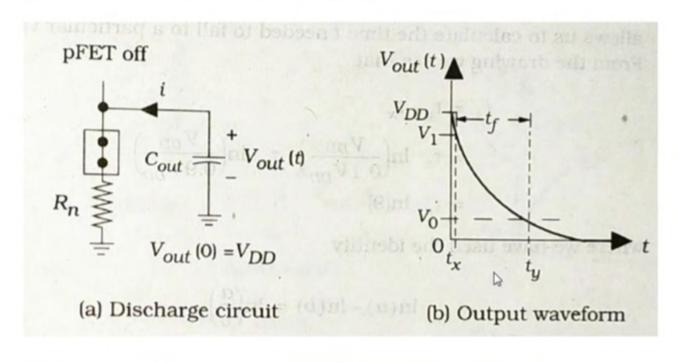
(W/L)n (V/L) P



Example: Analysis to Find the Capacitances in the NOT gate



Fall Time Calculation



i=-Cout Wout = Vout drout > - Cout X = Yout - Low RnX = Your That Your = 0 X-- Yest nontry = nontro) 6 t== To Lot You

Nontrol = NDO Vousily - vopet/zn Th= Rh Gut ction = Vout(+) -t = In Yoult) + = - Zu ruf routh) = 7 20 (Jos /) 6.1400 0.9000 t= ty-tx = 2 n ln (\(\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac}}}}{\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}\f{\firin}}}{\firin}}}}{\frac{\frac{\frac{\frac{\frac{\frac{ Stop sharing

(FET = CON+(DP = 15.552 + 34.9 = 50.45FF Lout = CFET+(L Lout - 250.45FF+(L