

## **Experiment 3**

### **CMOS Inverter Switching Characteristics**

1. Design a symmetrical CMOS inverter, without load capacitor ( $C_L$ ) and perform transient analysis. Measure the rise time ( $t_R$ ), and fall time ( $t_F$ ).
2. To the same symmetrical inverter, apply a suitable  $C_L$ , and measure  $t_{pHL}$ , and  $t_{pLH}$ .
3. Compute the average and worst-case propagation delay.