Experiment 2

CMOS Inverter Static Characteristics

- 1. Design a CMOS inverter, with equal width of both PMOS and NMOS (400 nm) and plot its DC transfer characteristics. From the characteristics, find the midpoint voltage (V_M) .
- 2. Obtain VOL, VOH, VIL, VIH, and noise margin.
- 3. Maintain the NMOS width as 400 nm and alter the PMOS width to obtain a symmetrical DC characteristic.