Problem Set

Using MOSIS TSMC 180 nm technology, design an inverter with the following transistor sizing: Mn = 4/2 and Mp=8/2.

Use HSPICE/Cosmoscope to plot the Voltage Transfer Characteristic of the inverter.

Use .MEASURE to find the static characteristics of your inverter:
VIL, VIH, VOL, VOH, VTH

Provide:
1) HSPICE netlist
2) VTC plot (Vout vs. Vin)
3) The measured parameters (either from your list file or your measurement file)