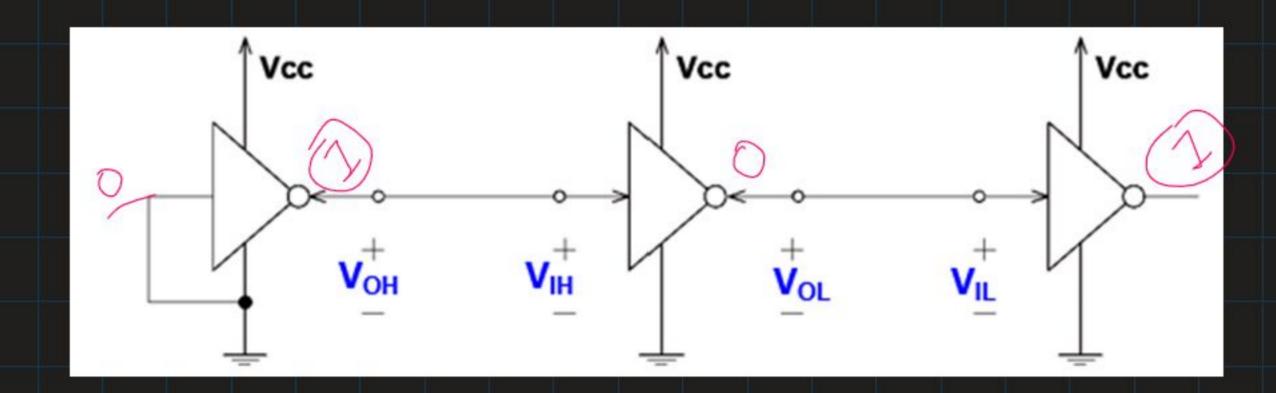
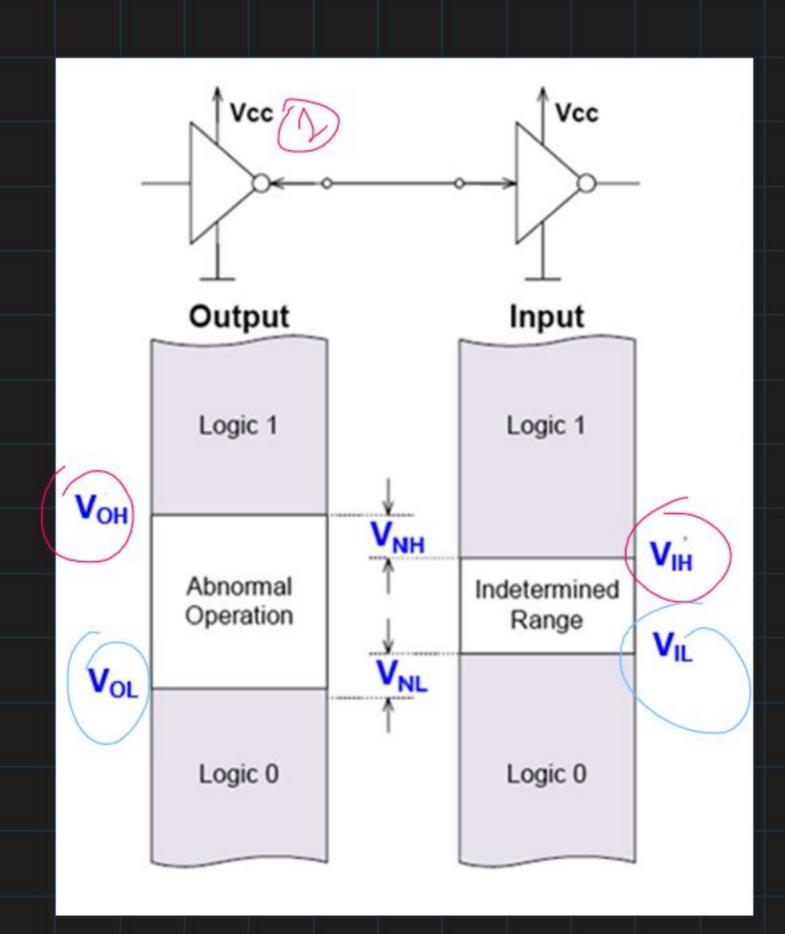


- V_{OH}(min) The minimum voltage level at an output in the logical "1" state under defined load conditions
- V_{OL}(max) The maximum voltage level at an output in the logical "0" state under defined load conditions
- VIH(min) The minimum voltage required at an input to be recognized as "1" logical state
- V_{IL}(max) The maximum voltage required at an input that still will be recognized as "0" logical state





HIGH state noise margin:

 $V_{NH} = V_{OH}(min) - V_{IH}(min)$

LOW state noise margin:

 $V_{NL} = V_{IL}(max) - V_{OL}(max)$

Noise margin:

 $V_N = min(V_{NH}, V_{NL})$

