

# Digital Electronics

## CHARACTERISTICS OF LOGIC FAMILY



### PROPAGATION DELAY (t<sub>pd</sub>)

Measured in nano seconds (ns)

Time taken for signal to change from ON to OFF. Time is more due to storage time.

In CMOS ON to OFF ( $t_{fall} > t_{rise}$ ) due to storage time or calculation delay.



Due to the propagation delay in the gates the output response is not exactly identical to the input time when the V<sub>CC</sub> is applied.



$$t_{pd} = \frac{t_{rise} + t_{fall}}{2}$$

In reality, sudden changes (transitions from 0 to 1 or vice versa) doesn't happen instantaneously. Sometimes it spent from transitioning 0 to 1 or vice versa.

All logic family is the fastest among all.

### POWER DISSIPATION

Power dissipation is power dissipated by a logic gate.

Measured in milliwatts (mW)

Mathematically

$$P_{diss} = V_{CC} \times I_{CC} \text{ avg}$$

$$I_{CC} \text{ avg} = \frac{I_{C(ON)} + I_{C(OFF)}}{2}$$

$I_{C(OFF)} = I_C(ON)$

$I_C(ON) =$  (cut off current)

CMOS logic family has lowest power dissipation.

Ideally should be zero, but practically low current.



$$V_{CC} - V_{CE(sat)} = I_{C(sat)} R_C$$

$$I_{C(sat)} \approx \frac{V_{CC}}{R_C}$$

### FIGURE OF MERIT

$$\begin{aligned} \text{Mathematically } F.O.M &= t_{pd} \times P_{diss} \\ &= ns \times mW \\ &= pJ \text{ (Picjoules)} \end{aligned}$$

$$CMOS \approx 0.1 pJ \text{ to } 0.7 pJ$$

Best F.O.M is for CMOS logic family among all logic families. CMOS has F.O.M. in range of 0.1 pJ to 0.7 pJ.

# Digital Electronics Lecture Notes 2011 2012

**L Cohen**



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