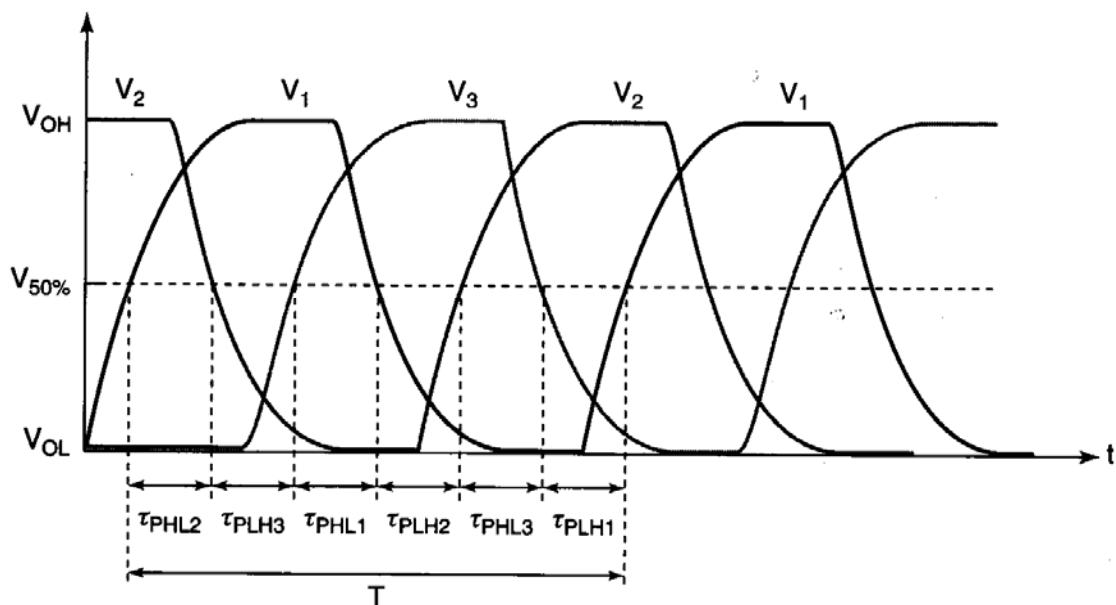
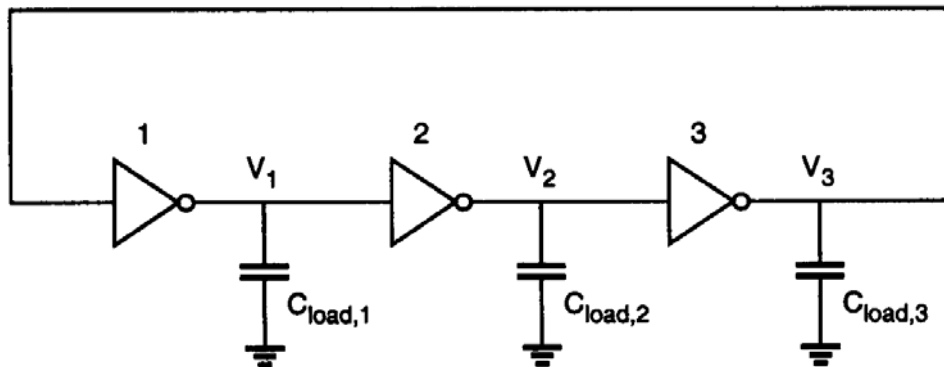


RING OSCILLATOR



$$\begin{aligned} T &= \tau_{PHL1} + \tau_{PLH1} + \tau_{PHL2} + \tau_{PLH2} + \tau_{PHL3} + \tau_{PLH3} \\ &= 2\tau_P + 2\tau_P + 2\tau_P \\ &= 3 \cdot 2\tau_P = 6\tau_P \end{aligned}$$

$$f = \frac{1}{T} = \frac{1}{2 \cdot n \cdot \tau_P}$$

$$\tau_P = \frac{1}{2 \cdot n \cdot f}$$