-0.69 < V2-1.2

V1 > 0.5 V.

 $T_{w} = C_{2} \left(\int_{0}^{0.51} \frac{dV_{2}}{I_{0.04}} + \int_{0.51}^{0.6} \frac{dV_{2}}{I_{0.04}} \right)$

2 oset = = No lox Up (Vas - Vip) = 1.314mA

长阳道:

(+1) PMOS = Vos-V7p = Vex-Von-V7p = 0-1.2+0.1/ = -0.69 = Voy Vps = V1 - Vpp = 17-1.2

$$2p.m = \frac{1}{2} N_{p}lox \frac{w_{p}}{L_{p}^{p}} \left(2(V_{6S}-V_{7p})V_{pS}-V_{pS}^{2}\right)$$
 $L_{p} = L_{p} = 40 - 2\times10 = 20nm$
 $1 + V_{2} = 0.6V$
 $1 + V_{2} = 0.6V$
 $1 + V_{2} = 0.1 \times 10^{-12} \times \left(\frac{1.314\times10^{-3}}{1.314\times10^{-3}} \times 0.5\right) + \left(0.6-0.5\right) \cdot \frac{1.2917\times10^{-3}}{1.2917\times10^{-3}}$
 $= 45.78 ps$
 $1 + V_{2} = 0.69$
 $1 + V_{2} = 0.69$

V1 > 0.7239 V 加加区 新. V2 < 0.7239V 1 prat = 2 procex Ly (Vas-Vap) (Vas-Vap) (Vas-Vap) = 1.039 mA

$$\frac{1}{2} \sum_{n} \lim_{n \to \infty} \frac{1}{\sum_{n} \sum_{n} \frac{1}{\sum_{n} \sum_{n} \sum_{n}$$

$$= 1.02 | SmN$$

$$Tw = C_2 \left(\int_0^{0.6} \frac{dV_2}{2_{0.sat}} \right)$$

= AB. Ac. BC

= (A+B)(A+C)(B+C)

$$= 0.1 \times 10^{-12} \times 0.6 \times \frac{1}{1.039 \times 10^{-3}}$$

A+13 A+c B+C (成非)

(NAND)

A.13 BH 3/L

A.13 BH 3/L

$$V_{DN} = 2$$
 $V_{DN} = 2$
 $V_{DN} = 38.2 \text{ NB/V}$
 $V_{DN} = 46 \text{ NB/V}$
 $V_{DN} = 12 \text{ V}$
 $V_{DN} = \frac{1}{2} \left(\left(\frac{k_{D}}{k_{D}} + 1 \right) V_{22} - \frac{k_{D}}{k_{D}} V_{21} - V_{21} + V_{22} \right)$

$$V_{2H}: V_{3h} = \left(\frac{k_n}{k_p} + 1\right) V_{2H} - V_{7h} - \frac{k_p}{k_p} (V_{3h} + V_{7h})$$

Kn (V2H - V1n - Wat) Vont = kp (V2H - V10) - 470)2

NMH=1.2 - 0.6/02 = 0.5898V

基金计算的- 敌

V2H = 0. 6283V





