NMOS (urrent eq):

Nos timental/subthenshild

Vus  $\langle V_{TH} \rangle$  cutoff  $To_3 \approx 0$   $\begin{cases}
V_{63} \geqslant V_{FH} \\
V_{65} \geqslant V_{FH}
\end{cases} \Rightarrow time \qquad To_5 = t_n \frac{2(V_{75} - V_{FH})V_{65} - V_{65}^2}{1 + \frac{V_{65}}{E_{cL}}} \\
\begin{cases}
V_{73} \geqslant V_{74} \Rightarrow 501
\end{cases} \qquad To_7 = t_n \frac{(V_{75} - V_{74})^2}{1 + \frac{V_{95} - V_{74}}{E_{cL}}} & (1 + \lambda V_{65}) \\
V_{75} \geqslant V_{75} + V_{74} \Rightarrow 501
\end{cases} \qquad To_7 = t_n \frac{(V_{75} - V_{74})^2}{E_{cL}} & (1 + \lambda V_{65}) \\
V_{75} = V_{74} + CE_{cL} \Rightarrow D_{65} = t_{66} + (V_{75} - V_{74})^2(1 + \lambda V_{65}) \\
V_{75} = V_{74} > E_{cL} \Rightarrow T_{65} = t_{66} + (V_{75} - V_{74})(1 + \lambda V_{65}) \\
Example

Fig. = 10^6 V_{76} & V_{76} + (L = 0.5 V_{76}) \\
Old tech: E_{6L} = 0.5 V_{76} + (L = 0.5 V_{76}) \\
To_{6} = 0
\end{cases}$ 

tox sieletric

pt n+ 60000000 n+

old tech translation

VTH: 1/10+ Y ( NEd p+V36 - V120 p1)

