

Daylo-15th Feb

Dynamic Characteristics:

$$\frac{K^{c}}{C} = const = f$$

$$K = u \left(ox \left(\frac{v}{c} \right) \right)$$

If Kushred, invester size whited



(1) Increasing capacitance will increase the delay

a former man can adjust sizes of appointment

Deloy 1

As $\frac{KY}{C}$ = constant Reeping one term constant we can check the propostionally for any two variables

Ideally delay can be made O but not practial

Von Cert Von Loub Loub Loub Von Loub Vo

So, reven if Cent=0, Csaf will always be these TCSrIC TCENT CDBn,p } Parasitie copocitances => S & [Csef + Cext] S of Cont $K = u \left(o_{x} \left[\frac{N}{L} \right] = \right) K \left(\frac{N}{L} \right)$ CINCIN Cin = Gasn + Casp > Deponds upon MosfEts
operation in saturation Lo Check in procinous lentrine

We can infer KaGn

g = Logical efforts

 S & Coxt + Cself T Con & Constant

In extreme case, to munisise delay are may want to increme size — then C. be comes soo large that (self >> Cent

Check calc example in 057

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IMP

Can't be reduced higher

In multiple branches, we can't blindly keep increasing size on it increases (in =) makes land on poerious stages

To drive high capacitive load with least delay possible:

m the end

Design based

Small invoter 2 Large Invistes to meet need This can affect the poernous investes due to Investers shouldn't be huge load same Tapered Buller