V2SI Design - Lecture 9

26th Ang 2022

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Scint)

Drain cap of current

Stage

The Code

Ly Technology Lep exponents $= t_{po} \left(1 + \frac{c_{g,j+1}}{c_{g,j}} \right) + \frac{c_{g,j+1}}{c_{g,j}}$ $= t_{po}\left(\right) + \frac{t}{\gamma}$ 10C I Lead Eagachance

Gate Cap S=10 tp=7po(1+2-2)=3.7po 216.7 tpo (2 topo) (11 tpo) (0 (3.7 tp.)

 $t_{p} = \underbrace{S}_{j} t_{p,j} = \underbrace{S}_{j} t_{po} \left(1 + \underbrace{Cg, j+1}_{r cg, j} \right)$ $\frac{dt_p}{dC_{g,i}} + \frac{C_{g,i-1}}{C_{g,i-1}} + \frac{C_{g,i-1}}{C_{g,i}} + \frac{C_{g,i-1}}{C_{g,i}}$ $\frac{1}{C_{g,i-1}} - \frac{C_{g,i-1}}{C_{g,i}} = 0 \quad C_{g,i} = \sqrt{C_{g,i-1}} \frac{C_{g,i-1}}{C_{g,i-1}}$ 1000 C No. of Stage Total sulary Delay per stoge 28 tpo 28 lpo 27 (00) tho 1001 f 120 1000 1000/ 17. 1000 pp. 10000 202 po 101 hz. 10000 45 tp. 22.5tpo 1000 hh tro 111728 1000

