06104/2015 - WID

EHB 322E Dy Hel Bleedmare Cheurb SPRING 2015

Dynamic (CMOS) Lagre

Byramic: charges over line : Static stabilizes over line

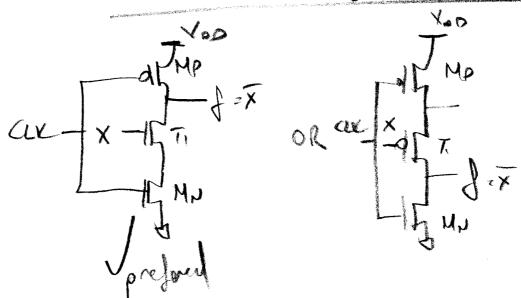
Goals 1) No resides

- 2) No stelle pomer
- 3) Femer drassidas compared b cmos
- 4) Faster than comes and PTL

Drawbooks 1) Extra clack synd is needed

- 2) Design is much more difficult compared to
- 3) Output is flooting (open) in some coses worsening synd quells

Incle wha Oyanic Legis



Cax Jahren Ont (x) If CLK=OV (Prechargery) out is you 17 CLK. VOD (Evaluation) OUT is YOU -YX (JUX) OUT = ELE + CLK (X) of (taget function) Given a tesset Luiden & to be Implemented M - OUT J OUT = TTE + CLE(4) = PON AL MV If I has allded count of Infectioned form 12 travilles are needed in Dycame Lega

Problem M Bronie L'este (when over is thealt 1) Change leakage proplam Signed that follow lestage

(2) Charge - Sharry Problem Suppose that f=1 , cux=1, x1=0, x2=0->1 1 Va-12/2 = 0 TX2 + JOUT JOUT <u>vo</u> OXI HISTORY 9 ov J DVa a de = ca de (Ic)=Fcd)

Von Italian (dt)

Va Jac Stort & Ca DVa

Jac S

=) [CL. DVo-1 = C. DVa

Ca=1pF Delarane Vont-find it

Voo-5Y

Von-5Y

b) CL=3pF

Check if ≤ 2 Voo VTN is solisfied (6) 0) = > 4 / = Nya= YDD-YTW= UV) A Vant = AVa = 4/5,084 =) York flud = 4,21 4 X => Vont-dud = 5.1 = 1,25 y

(too smell) - Voltfiel can not be seen if Ti is not large

- Vort-hild might of be von if To is not large enough

CIK OF THE DOLL OUT

Delays u Dyrawa Legiz

-hpts should be switched dury the prechange (cux=0) operation.

cue of or

- Epen is determed by a single hersisher

Mp

The is determed by PON and MN

- first is determed by PON and MN

Per cox for the Re- 2k

My - 12 Start Word Mod cap

Neglect Word Mod cap

Neglect Word cox Delys?

CIX - 12 My

CPLH (WC,00) = 0,68 (18 P)

-tpHc(wc) = 0,63 (3) (P) tpHc(65069 (5))