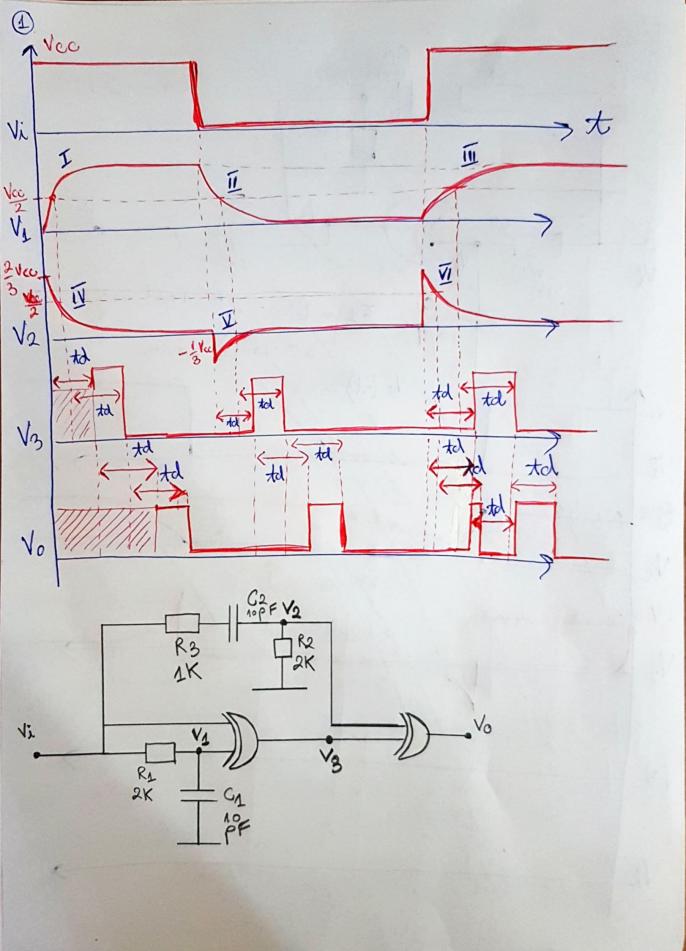
ELECTROMICA DIGITALA
TEMA
Guigone Lucian-Florin
32400



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Pentru V1: V_1(t) = V_1(0) \cdot e^{-\frac{1}{61}} + V_1(\infty) \cdot (1 - e^{-\frac{1}{64}})
                 unde 61 = R1. G = 10pf. 2K = 10.10-12.2.103 =
                     = 20 ms (const. de tiup)
   (I) V_1(0) = 0V_2 V_1(\infty) = V_{CC} = 0
        =) V_1(\frac{1}{2}) = (1 - e^{-\frac{1}{2}/6_1}) \cdot V_9 = \frac{\sqrt{6}}{2} = 0
                =) \frac{1}{2} = e^{-\frac{1}{2}[5_1]} / en = -\frac{1}{2} - en2 = -\frac{1}{2} / e1 = 0
          => $1 = 61. ln 2 = 14 m5 (timpul de crostère
 de la 0 la VCC/2)
I). V_1(0) = V_{CC}; V_1(\infty) = 0 = 0

=) V_1(t_2) = V_2C \cdot e^{-t_2/61} = V_2C|_{21} = 0

=) e^{-t_2/61} = \frac{1}{2} = 0 t_2 = 6_1 \cdot l_{21} = 14 \text{ ms (timpul)}
 de descretere de la Vcc la Vcc/2).
(III). t_3 = t_1 = 14 \text{ m5 (Amalog I)}

Pentru V_2: V_2(t) = V_2(0) \cdot e^{-t/62} + V_2(0) \cdot (1 - e^{-t/62})
      unde 62 = R2). C2 = 3k. 10 pF = 30 ms (et. de timp)
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(a)  $V_2(0) = \frac{2}{3} \text{ vcc} ; V_2(0) = 0 = 0 = 0$ =)  $V_2(t_4) = V_2(t_2) = \frac{2}{3} V_2(t_3) = \frac{2}{3} V_2(t_4) = \frac{2}{3} V$   $\pm 4 = 0,28 \pm .30 \approx 8,63 \text{ ms} (\text{timpul de descretere})$  de la  $\frac{2}{3} \text{Vcc}$  la  $\frac{1}{2} \text{Vcc})$ 

D. tiupul de aici mu merità calculat desarece mu este relevant peritru iesinea circuitalui. (mu influente 200 cu mimic).

es established the destablished the

√1. t6 = t4 = 8 563<sup>m6</sup> (Analog) [V]

