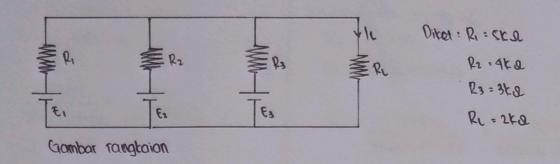
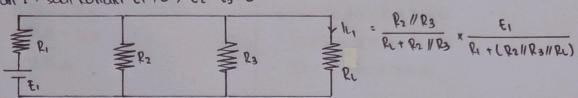
Hama: LUBIS AULIYAK

tolar : 1 03 TB 1/20 : 1203191052

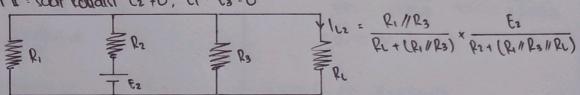
Tugar Workshop Pergganti Percobaan HURUM SUPERPOSISI



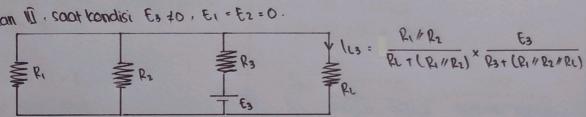
-> Rangkaion ?: soot kondiki E, to, Ez=E3=0.



-> Rongraion 1 : soot bondici Ez #0, E1 = E3 =0



→ Rangkaian III, saat kondisi Es to, E1 = E2 = 0.



→ Talou Data hacil porhitungan.

110	E((v)	Ez(v)	E3(V)	In (MA)	ILZ (MA)	Ita (MA)	Ic (MA)
1	10	5	3	0,78	0,49	0,39	1,66
2	10	c	-3	0,78	0,49	-0,39	0.88
3	8	6	4	0,62	82,0	0,52	1,72
4	8	6	-4	0,62	82.0	-0.52	0,68

10.1 E1 = 10 Y E2 = 5 Y E3 = 3 V * 500+ E1 +0, E2 = E3 = 0 P2 // R3 = 4+11.3+21 4+2+3+21 = 1714 2

> R2 11 R3 11 R2 = 17142.20002 1714.2 + 20002 = 923.2

ILI = 1714.2 × 10 V 2000st 1714.2 5000st 923.2 = 0.78 MA.

*Soot E2 \$0, E1 = E3 = 0

R1 // R3 = 5k8.3k8

St8 + 3k8

= 1875.2

R1/R3//R1 = 1875.1. 2000.3. 1875.2.+2000.3. = 968.2

The = 1875 a x 1000 a + 968 a = 0,49 ma.

* saat & 3 \$0. & 1 = & 1 = 0

R1 # R2 = SKD. 4kD

Skd + 4k0

= 2222 Q

2222 + 2000 s 2003 s

113 = 2222 9 3 V 2000 2+2222 3000 2+1053 2 Mo.1 E1=10V, E2=5V, E3=3V

* Ic = [c1 + [c2 + [c3 = 0.78 mA + 0.49 mA + 0.39 mA = 1.66 mA.

110.2 E1 = 10 V, E2 = 5 V, E3 = -3 V * Soot E1 \$0, E2 = E3 = 0 P2 // P3 = 1714 D P2 // P3 // PL = 923 D

11 = 1714 02 × 10V 20002 + 171402 × 50002 + 923 a = 8178 + 80007

#soot E2 \$0, E1 = E3 = 0 P1 // P3 = 1895 S2 P1 // P3 // PL = 968 S2

> 162 = 1879 + 5000 2000 + 1878 + 2000 + 9689 400 + 1878 + 2000 + 9689

* Soot E3 \$0, E1 = E2 = 0

R1 // R2 = 2222 &

R1 // R2 // RL = 1053 &

 $\frac{113 = 22222}{2000 \cdot 22222} \times \frac{-3 }{2000 \cdot 2 + 1053 } = 0.39 \text{ MA}$

* Ic = Ic1 + Ic2 + Ic3 = 0.78 mA + 0.49 mA - 0.39 mA = 0.88 mA tho.3. E1 = 8 v , E2 = 6 v , E3 = 9 Wolt * Soot E1 \$0 , E2 = E3 = 0 R2 1/23 = 1714 & P2 1/23 1/21 = 923 &

V 01 R PIFIT 20008 * R PIFIT 20008 PM 50,0 =

1500x Ez \$0, E1 = E3 = 0 R1 1/23 = 1875 - 2 R1 1/23 1/21 = 968

162 = 1875 A 2000 + 4680 + 2000 + 4680 = 2 0,58 mA 82,0

A SOLAT E3 \$0, E1 = E2 = 0

P1 1/22 = 2222 S2

P1 1/21/21 = 1053 S2

1000 x + 2222 x 3000 x + 1053 x = 0,52 MA

A I = [u + [12 +] 13 = 0.62 ma + 0.58 ma + 0,52 MA = 1.72, ma.

HO.4. E1 = 8V, E2 = 6U, E3 = -4V

* SOOCH E1 to, E2 = E3 = 0

R2 // R3 = 1714 D

R2 // R3 // R1 = 923 D

[L1 = 17142 + 10v 20002+17142 + 50002+9232 = 0,62 MA. MO.4. E1 = 10 V, E2 = 6V, E3 = -4V

* 5001 E2 \$0, E1 = E3 = 0

PINP3 = 1875 Q

PINP3 = 1875 Q

TL2 = 1895 & 4000 & + 9682 = 0,58 MA

* Soot E3 \$0, E1 = E2 = 0

P1 11 P2 = 2222 S2

P1 11 P2 11 PL = 1053 S2

163 = 2222 Q -4V 20002+2222 Q x 30002+1053Q

ÎL = [L1 + [L2 + [L3 = 0,62 MA + 0,58 MA - 0,52 MA = 0,68 MA