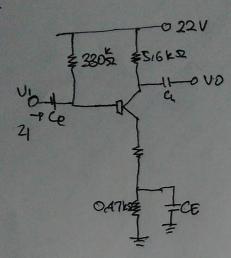
Tugas Elektronika Analog Door

10.



Dikelohui: 128 = 330 K2 PC = 5,6 K52 VCc = 22V PE = 1,2+0,47 = 1,67 A = 80 0 = 40 K52

Ditanya: a. re b. 21 dan AU c. A1

Jawab

a. $18 = V_{CC} - V_{DQ}$ 25 = 22 - 0.7 330×52 = 21.13 = 64.54 + 14 330

= 1021.68 ×103

= 182,4 ×10-3

TE=B. 18
= 80.64.54 = 5163,2KA=5,16mA

TO = 20mN
18
= 20mN
5,16mA

TO 210FC
410K \(\text{2} \) 10, 516 K-\(\text{2} \)

AUK \(\text{2} \) 256 K \(\text{2} \)

AUK \(\text{2} \) 256 K \(\text{2} \)

= \(\frac{-516KSL}{167} \)
= -3,3

11. 016V

B2110

T0=50 KS2

11. 2706

21. 7K-S2

Diketahui: RB = 270 KS PC = 2,7 KS VCC = 16V 13 = 110 10 = 50 KS

Ditonus: a. re, Bte b. 2. x20 c. AV X A

Jawab

a. 18 = VCC - Vbe R8 + (8+1)RE = 1b - 0.7 1E = (8+1) 18 $= 111 \cdot 26.85$ = 2.980 m $Re = 26 \text{ my} \qquad 26 \text{ mV}$

Re = 26 mV = 26 mV = 8,7252 = 0,00872 KD Bre = 110.8,72 = 959,252 = 0,959 K52

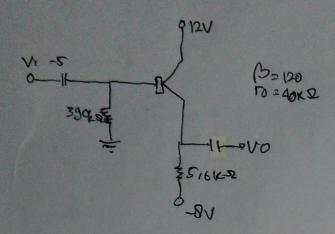
b. 2b = Brc + (B+1) RE= 0.959 + (110+1) , 2.17 k S2 = 300659 k S2 2i = RB 11 2 + b= 2.70 k 200 = 21000 = 142 k S2 20 = 2E - 11 RC = 580= 2.7 k 2 110,00872 = 0.023544 = 0.0086 k S2

C. AV = NO = RE = 2.7 K Q + 0,00872 = 217KQ = 0,99

A1 = -BPB

Ab+2b

270K & + 300K & 270K & + 300K & = -2970 K & 570 12



Diudohui=PC380

PE = 5,6 K2

V= 12V

B= 120

Po = ADK SI

Ditang : a. 2,220

b, AU

C No Juc Vi= lmv

Sawab

C. Au = NO

13. VK22N

| 3-200
| 6-200
| 6-200
| 6-200
| 70-40 k JL

Prus: PB: 8,2k2 +56 k2

= 64,2k2

Pc = 2k2

Po = 200

To = 40 k2

VCC = 200

Prtanga a. 18 dan 16 6. re c 21 dan 20 d Audan A1

Jarob:

a. 16 = VCC - VBE = 20-017 = 300,6 HA

b. re = 26 mu

16 = (B+1) 13

= 26 mu

= 26 mu

= 201.300,6

= 0,42 ml

= 0,43 sq.

= 0,43 sq.

C. Bre = $200.0.43 = 889 = 0.086 \times 12$ 21 = 120 | 1 | 1300= 64.2 | 1 | 0.096= 5.5212 $64.286 = 0.085 \times 12$

20 = Re lire = 2110/43 = 35 3,80 \times d. Au = - RC Re = 2651

 $A1 = -A \cup \frac{21}{PC}$ = $+4651 \cdot \frac{0.085 \times 9}{2 \times 9}$

= 197,66

14.

'a.
$$15 = \frac{\sqrt{5} \pm - \sqrt{8}}{\sqrt{6}} = \frac{6\sqrt{-6}}{6\sqrt{8}} = \frac{5\sqrt{3}}{6\sqrt{8}} = \frac{779}{41} \text{ mA}$$

$$16 = \frac{26}{16} = \frac{26}{779} =$$

26,03352

$$20 = RC = 4.7 \text{ KQ}$$

 $C. \Delta V = \frac{RC}{R} = \frac{4.7}{0.033} = 142424$

Δ, :-0, 998 = 1

b. A1=-1