



CONFIGURATION II +R1 R2 **R3** R6 Vs K L1 L2 0.94 **50** 150 **50** 1μ V1 R4 R5 L2 L1 1 100 400 273m AC 325.27 .ac list 50

| | Nahul Aggarwal 19651 | O O Camlin Page Date / / | |
|--|--|--------------------------|--|
| obson | vation Table: | | |
| | 200 A Paris Carlos | 10 100 Co. 1809 | |
| | Vs: input voltage in Contig1; V | T. L. ON VILLE | |
| 2. N.O. | Vs (V) I3 (MA) Vs/I3 Vs1 (V) | T11 (MH) 18: 1 T11 | |
| 01. | 212.52 489 0.435 112.67 | 259 :0.435 | |
| | 186.66 430 0.434 161.89 | 373 0.434 | |
| 71 | 170.46 392 0.435 187.11 | 431 0.434 | |
| The state of the s | Lanco II-lego - allain | cut all the | |
| Inte | rence Sample Calculations: | MUU D | |
| 1 | 12 réminant out mains | - district | |
| 1 LUNGAH | In the observation table | | |
| | all the readings the was observed equal | Latto VS/13 | |
| LANI. | This weifies the necip | | |
| MALONIO | greener ever born 124 of | | |
| T | Configuration 1 when | Voltage source | |
| | | and ammeter | |
| | townson love love to be suited suited suited | | |
| 20 | | 110 | |
| | Reff = R1 + (R4 11 (R2+ R | 311 K5) | |
| İ | = R1 + R4 11 / R2 + R3 | (RS)) valenti | |
| | R | 1 + R5 | |
| 25 | 150 + 100 11/50 + 5 | 0.400 | |
| | | 50 +400) | |
| | = 150 + 100 94.44 = | 198. ST IL | |
| | and passage stages of | tout stold | |
| | V visit | 18.57 | |
| 30 | (by ohun's law,] | = Vs/Reft) | |
| | LOAA. | | |
| | THE TOTAL OF THE PARTY OF THE P | O hardy | |
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Nahul Aggarwal 190510044 Camlin Page Date 1
I_2 = I_1 \times 100
             100 + 50 + 400 1150
3 ... = I, X 0.514 = 0.55 A
T_{4} = T_{1} - T_{2} = 10.62 A.
        I2 X 400 = 0-49 A
                400 +50
Is = I2-13 = 0.06 AI =
 V, = Vs - R, I, (junction of Ri, R2, R4)
         212.52 - 150 x 1.07 = 52.02 V
V_2 = V_1 - R_2 I_2 (junction of R_2, R_3, R_5)
= 52.02 - 50 \times 0.55 = 24.52 \text{ V}
I_1 = 1.07 A
I_2 = 0.55 A
I_3 = 0.49 A
I_4 = 0.52 A
I_5 = 0.06 A
V_1 = 52.02 V
V_2 = 24.52 V
Configuration 2- when nottage source
 is collected to 2-2' and ammeter
 Reff = R3 + (R511 (R2+ (R111R4)
       = 50 + (40011 / 50 + 150. 100
                              150 +100
 = 50 + 400 | 110 = 49.73372 = 136.2752
I3' = Vs1 | Reff (by ohm's law)
= 112:67/29:33 = 142.A
I_{3}' = 112:6.7/29.33
= 112:6.7/29.33
                               0.83 A
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|--|
| $I_{\mathbf{q}} = I_{1} \times 400$ |
| 2 301 301 + 02480 + 50 + 10011150 |
| |
| $= I_3' * 0.784 = IIA. 0.65A$ |
| $I_5 = I_3 - I_2 = 0.180$ |
| $I_5 = I_3 - I_2 = 0314.0.18A$ |
| $\underline{\mathbf{L}}_{1}^{\prime} = \mathbf{L}_{2}^{\prime} \times \mathbf{L}_{0} = \mathbf{L}_{2}^{\prime} \times \mathbf{L}_{0} = \mathbf{L}_{2}^{\prime} \times \mathbf{L}_{0}$ |
| - 100 + 150 |
| $= I_2 \times 0.4 = 0.26A$ |
| $= \underline{\Gamma_4} = \underline{\Gamma_2} - \underline{\Gamma_1} = 0.39 \text{ A} = 0.39 \text{ A}$ |
| ~ N10.00 = 40.1 x 621 - 62.016 - |
| $\frac{V_3 = V_5' - R_3 I_3' (junction of R_2, R_3, k_s)}{(junction of R_2, R_3, k_s)}$ |
| $= 112.67 - 50 \times 0.83 = 71.17 \text{ V}$ |
| $Vy = V_3 - R_2 I_2 (investiga el 0 le 0)$ |
| $Vy = V_3 - R_2 I_2 (junction of R, R_2 R_4)$ = $-11.17 - 50 \times 0.65 = 38.67V$ |
| A 3 3 0 = 2 + 1 A 1 2 0 0 = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| $T_1 = 0.000$ |
| $\frac{1}{12} = \frac{1}{12} $ |
| The section of the second of t |
| Discussion: The values of the nations Vs I3 |
| all the readings recorded in the |
| table. Mer etable The experiment was |
| successful in whitying the weight |
| - ary morem. Besides The milling |
| of branch currents for the two configurations corresponding to the |
| first reading were calculated |
| first reading were calculated Theoretically using ohur's law |
| |

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| - | OAAA Vea all III |
| | the business suches. The values of |
| | and Kierchhoff's rules. The values of the brounch currents I3 and I's were extremely elected to |
| | |
| | that were predicted theoretically |
| 5 | that were predicted theoretically through calculations. |
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