Tarea 3. Problema de Ley de Mirchoff de Voltaje Empleando la L, K, V coloule la corriente que circula en cada una de las mallas R1= 1-1 R4= 2-1 R3=3.D 70 t Vz GV R5=11 ER= 21 Malla (1) Ry V1 V2 VR1 VRZ = 0 V, - V1 + V2 + VR1 + W2 Z = 8 VR1 + VR2 = V1-VZ (I1-I2) P1+(I1-I3) P2=V1-V2 25 I-R1-I2R1+I1R2-I3R2-V1-V2 RZ I, (R++R2)-I2R-I3R2=V1-V2 Malla @ I1(1+2)-I21-I32=7-4-6v - VR1+VR3+VR4 = 0 3I1-I2-2I3=1 -(In-Iz) R1+IzR3+IzR4=0 - I + R, + IzR, + IzRs + IzRy = & J2(R1+R3+R4)-J1R1=0 Iz(1+3+2)-I-1=8 6 Iz - I1 = Ø Scribe

Malla 3 - V2-VR2-VR3+VR5 = 0 - Vez-Vez+Vn5 = Vz -(I1- I3) Rz-(Tz-I3) R3 + I3 R5 = V2 I-Q+ I3 Qz - Tz Bst I3 Q3 + I3 Q5 = Vz I3 (Rz+B3+R5)-I1Rz+Izns=Vz I3(2+3+1)-I17-I23=6 6 I 3 - 2 I 1 - 3 I 2 = 6 3 13 In - Iz - 2 Is = 1 0-I1+6Iz=0 3-2I1-3I2+6I3=6 1-1/3-1/3 1-2-3 6 6 / Part 20, 10-11/3 14/3 20/3/ 1 -1/3 -3/3 1/3 \ 0 1 -1/3 -3/3 1/3 \ 0 1 -3/1 1 -1/3 -3/3 | 1/3 \ \ \text{\$0 | 1 \frac{17}{12} \\ \text{\$0 | 1\frac{17}{12} \\ \text{\$0 | 1\frac{17}{ 0.11/303 (1 0 6) 5/2) $I_1 = 3/24 = 1.5 A = 1500 mA$ 0.16 = 1/4 : $I_2 = 1/4 = 0.25 A = 250 mA$ 0.16 = 1/4 : $I_3 = 1/3/8 = 1.62 A = 1620 mA$

large 3 Pablema de Ley de Mirchaff de Voltaje

Fragile and a Likiv delong la corriente appoincula