2005-8005 H23U45 28An

1 13

Sh= 100014 Un= 110 EV 1 SURVITE J5

 $S_2 = -50 + 100 \text{ MVA}$ $\Rightarrow -0.5 + 10.1 \text{ Ip. u. J}$ $S_3 = 9 + 100 \text{ MVA}$ $S_4 = -50 + 100 \text{ MA}$ $\Rightarrow -0.5 + 10.1 \text{ Ip. u. J}$

KLE = Sit YLing = YNI Yet

(MA 14 (M-1) = 3 => KL2, KL3, KL4

212= (0.1 2/lon + Jo. 42/lon) · 50 lon = 5 + J20[2] = 0pl. 213= (0.14 2/lon + Jo. 428/lon) · 20 lon = 11.2 + J33.6[2] 224 = (0.05 52/lon + J0.322/lon) · 100 lon = 7.5 + J48[2] 234 = (0.22/lon + J0.422/lon) · 20 lon = 4 + J8.4[2]

En = 0,04/32+10.167289 [p.u]

· 213 = 0,00006 + 10.2768 [pu]

- Zzy= 0,06/483 + 10.35664 [p. 4]

734-01033577 + 10064121 [MIN]

722=1,8080-18.15486 435=6.67185-j.14.98321 444=5.97589-j.14.20283

$$K_{L2} = \frac{(-0.5 - 10.1)}{1.8080 - 18.15486} = -0.001768 - 10.061031 [p.u]$$

2) Un= 23/2V = 1.05 [M. W]

Sh WE a

1/1 WO WH 12% 220/MT

T2 800VA 11.5% 220/MD

$$A = \frac{ML}{ML} = 0.85621$$

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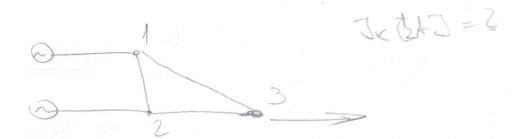
Jn=41141 +42242 J2=42141+42242

 $J_{2}=0$ $Y_{22}U_{2}=-Y_{21}U_{1}$ $U_{2}=\frac{Y_{21}U_{1}}{Y_{22}}$

U2 = -1.75844. 1,05 = 0,862785 p.4 -2.14 / 200 di 105 4.32

Ur 94. 923 EV

Sb= 100 MVA Un=110 bV



GOD |
$$23^{11}[95]$$
 | $5m[011]$ | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 13

74=f=4-1

$$J_{3}^{2} = 0 = 1 + 2J_{33} + J_{3}$$

$$J_{3} = -\frac{1}{2J_{33}} = 0 = 16.13297 \text{ M.M}$$

$$J_{8}[AJ = 16.13297] \frac{Sh_{5}}{58.4m} = \frac{3}{12894} \frac{24}{24}$$

$$J_{4}^{2} = 1 - 2J_{13} \cdot J_{3} = 0 \cdot 73987 \text{ M.M}$$

$$J_{4}^{2} = 1 - 2J_{23} \cdot J_{3} = 0 \cdot 776177 \text{ M.M}$$

$$J_{4}^{2} = 0$$

$$J_{1-2} = \frac{4U_1^2 - 4U_2^2}{X_{1-2}} = \frac{0.73487 - 0.776177}{10.148347} = -\frac{10.82508}{10.148347} = -\frac{10.82508}{10.13223}$$

$$J_{2-3} = \frac{4U_1^2 - 4U_2^2}{X_{2-3}} = \frac{0.776177 - 0}{10.13223} = -\frac{14.37723}{10.13223}$$

$$J_{1-3} = \frac{4U_1^2 - 4U_2^2}{X_{1-3}} = \frac{0.73427 - 0}{10.146728} = -\frac{11.776775}{10.146778}$$