Lezione 15

TETONO DE NOSI

POTES: ancoro RESISSIUS (GNARE, VENDO-INVARIANTE)

RAPPREZENTABILE COSI;

$$\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \int_{$$

Connent in consa $\rightarrow l_e = G_e \cdot J_e - I_g e$ $\begin{bmatrix}
Y_e \\
\end{bmatrix} = \begin{bmatrix}
G_e \\
\end{bmatrix} \begin{bmatrix}
V_e \\
\end{bmatrix} - \begin{bmatrix}
Y_e \\
\end{bmatrix} = \begin{bmatrix}
G_{c1} \\
0 \\
0 \\
0 \\
0 \\
0
\end{bmatrix} \cdot \begin{bmatrix}
V_e \\
V_e
\end{bmatrix} - \begin{bmatrix}
Y_{c1} \\
V_e
\end{bmatrix} - \begin{bmatrix}
Y$

$$\left[\exists_{n} \right] = \left[G_{n} \right] \left[V_{n} \right] - \left[\exists_{n} \right]$$

SOFTITUISIS TUTIO DENTRO

$$[In] + [A][Ie] = [0]$$

$$[Gn][Vn] - [Isn] + [A] \{ [Ge][Vc] - [Ise] \} = [0]$$

$$[Gn][Vn] - [Isn] - [A] \{ [Ge][S][Vn] + [Ise] \} = [0]$$

$$[Gn][Vn] - [Isn] - [A][Ge][S][Vn] - [A][Ise] = [0]$$

$$[Gn][Vn] - [Isn] - [A][Ge][S][Vn] = [Isn] + [A][Ise]$$

$$[Vn] - [Isn] - [Isn] + [Isn]$$

$$[Vn] - [Isn] - [Isn] + [Isn]$$

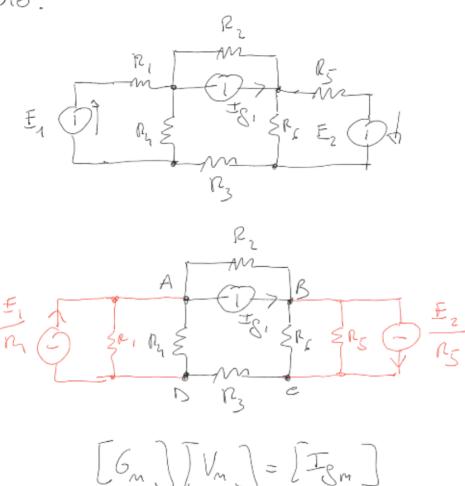
NOSAL

 $[G_m] \cdot [V_m] = [I_{Sm}]$

NETODO DE, NODA

LA MATRICE [Gm] E SITMETRICA. IL VETTONE GLONNA [ITA] CONTIENT M CONTENTE DEL CINCUTO

Esenpio:



CI SONO 4 NOMI to CALLOLD: SCEGLIAMO ONO SI SALDO SCEGLIAMO, AD ESERMIO, E GRE SALDO (O SI RIFERINENTO)

A B D

A
$$G_1+G_2+G_4$$
 $-G_2$ $-(G_1+G_4)$

B $-G_2$ $G_2+G_2+G_5$ 0

C $G_1+G_4+G_3$

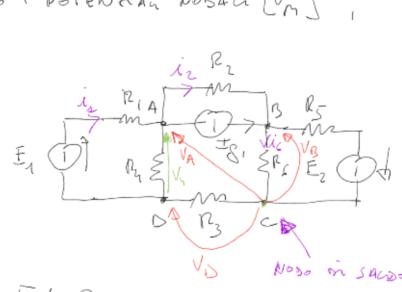
C G_m

GLI ELENENTI DELLA DIAGONALE DI [GM] SI CHIADANO

AUTO-CONSUTIANZE

TUTTI GLI AUTRI, TRANS-GOUTTANZE

QUAN SONO I POTENZIAN NOSAN [VM] ?



COTTE DIFFERENZA TRA DUE POTENZIACI NODAZI

$$i_6 = \frac{V_B}{R_C}$$
 $i_2 = \frac{V_{A-V_B}}{R_C}$

