## Réprésentación de SLIT 15150

Existen Listintes formes de represatolis y embiss de sisteme, lineoles e, universates e, el tremps y, losticulos unico entrolo y anice solide. Entre ellos:

- a) E audiones Differenciales
- 5) Flucis Tronsference.
- c) Helodo Opinaistroles (Nodo, Holls, Notos, etc.).
- d) Vouisles de Estodo Alotard.
- e) Volus Les de Estado Colwidos.
- f) Diognottue 2 Bloques.

De mours tel de près comporer code un de elles, se posente un esquiple de constis de coss proses:

Ejem/lo de Suolisis.

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Dodo et signiste anaits eléctics dorde le estado del mismo es le coniaste iers y lo solicle le coniaste es le constence R2, es doar, iols, Sudice les distintes aprésentations del sisteme:

a) Éaucioles Déprencioles iers

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Tr D'= 1 = Si)dt (Opends
Integral) Siels = CIDRalb + Valla - Valla Veilt-Veilt = C2DVez/h + Colh; Colh = Vez/h - Vez/h = Rziolfs 1015 - 1605 = CDVC215+16/15; VC116 = CDVC216 + 16216 + colls VCICA = (CD+ 1/4) VC2 (A+ (OCB = (CD+ 1/4)) R2 (OCB + (OCB) Voils = C2R2Diols+ (1+ R2) iols; Veils= 4 [C22Diols+ (1+ 1/4) iols] lects = CIDVCITS + VCITS - VCITS ; recylogordo Vorto y Veres -> iers = C,DR, [C2R2 Diols+(14/2) iols + La [C2R2 Diols+(14/2) iols] - R2 iolf) iers = Cichle Diolt + Ga(1+ Pr) Diors + Calabiols + iors + bridge - lacols iers =  $G(24R_2)^2$ iors +  $(GG + GR_2 + GR_2)$ Diors + cors ->  $D^2iors + \frac{GG + GR_2 + GR_2}{GGGR_2}$ Diors +  $\frac{1}{GGGR_2}$ iers 10/16+ ( 1/49 + 1/20 + 1/40 ) io/16 + 1/4029(2 idt) = 42.50 ie/16 ()

b) Funció Tronsferencie Trousfounds for Loplice main O so how you: S Tois + ( fig + right pice ) S Tois + ring Go Tors = 1/2 Ten,  $= \frac{1}{I_{ess}} = \frac{2 \pi c_{s} c_{s}}{S^{2} + \left(\frac{1}{2c_{s}} + \frac{1}{2c_{s}} + \frac{1}{2c_{s}}\right) S + \frac{1}{2c_{s}} c_{s} c_{s}}$ c) Mélido Opucional de Nodos.  $I_{ecs} = \frac{V_{cl(s)}}{V_{cl(s)}} = \frac{V_{cl(s)}}{V_{cl(s)}}$   $I_{ecs} = \frac{V_{cl(s)}}{S_{c_2}} = \frac{V_{cl(s)}}{R_2}$  $\begin{bmatrix} SC_1 + G_1 & -G_1 \\ -G_1 & G_1 + G_2 + SC_2 \end{bmatrix} \begin{bmatrix} VC_1(S) \\ VC_2(S) \end{bmatrix} = \begin{bmatrix} Te(S) \\ O \end{bmatrix}$ AY(s)= (SG+G1)(G1+G2+SQ)-G12 AY(s) = SZ(C2 + SC(G) + SC(G2 + G12+G/62 + SQG) - 6/2 1/(5) = 52462 + 5 (461+4662+6261)+ 9192  $V(20) = \frac{AV(20)}{AY(0)} = \frac{det}{det} \begin{bmatrix} SC_1 + G_1 & Tecn \\ -G_1 & O \end{bmatrix} = \frac{G_1 Tecs}{AY(s)}$  $T_{\alpha(s)} = \frac{V(2(s))}{R_2} = \frac{I}{R_2} \frac{G_1}{AY_{(s)}} T_{e(s)} = \frac{G_1. T_{e(s)}}{R_2(s^2 + G_1 + G_2) + G_2(s^2 + G_2) +$ = S299+ (9+9+ (2) s+ Jah

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det (SI-A) = 52+ 5 ( face + ros + aa) + aaa ) + aaa ) - aaa ) - aaa Let (57-0) = 52+ ( tag + tag + tag ) 5+ tag tag + tagg 12/60  $\frac{Los}{Tecs} = \frac{\left(0 \frac{1}{21}\right)\left(\frac{a_{11}}{c_{1}}\right)}{\det\left(sT-A\right)} = \frac{a_{21}/a_{20}}{\det\left(sT-A\right)}$  $\frac{To(s)}{Tem} = \frac{Rl_2C_1C_2}{5^2 + \left(\frac{1}{4G} + \frac{1}{R^2G} + \frac{1}{4C_2}\right) s + \frac{1}{R_1R_2G_2}}$ e) Voriobles de Estado Consuicas Dodo au tronsferencia de orde """ M(s) = bus 4 bu-15 4 .... + bis 2 4 615 + bo

Sh + du-15 4-14 .... + chis 2 4 015 + ao El wolf "Courier Cortroloble" de Voisle de Estado do la Fronsferencia Mon, estado delo la el siguiente conjunto de Motarcas:

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$$C = \begin{bmatrix}
(b_0 - Laq_0) & (b_1 - b_0 a_1) & (b_2 - b_0 a_2) & \cdots & (b_{n-1} - b_0 a_{n-1})
\end{bmatrix}$$

$$E = \underbrace{(b_0 - Laq_0)}_{AAGGG} & \underbrace{(b_1 - b_0 a_2)}_{AAGGG} & \underbrace{(b_{n-1} - b_0 a_{n-1})}_{S^2 + a_1 S + a_0}$$

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