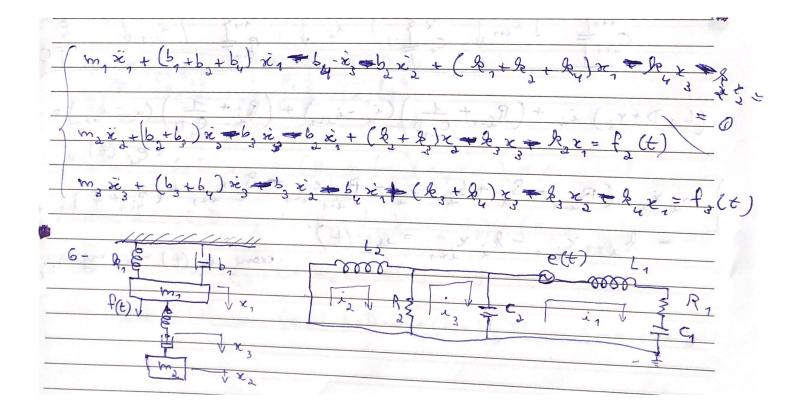
Corolina Corvalho Selva - 10705933 - Exercícios do dia 08/09alos slides: -1 L2 20000-2000 e(t) 2 m R. 1162 x 1 $\sqrt{f(t)}$ $\mathcal{M}_{o} \mathcal{D}_{a} := L_{1} \mathcal{D}_{a}^{i} + \frac{1}{c_{1}} \mathcal{D}_{i}^{i} + \mathcal{R}_{1}^{i} + \frac{1}{c_{2}} \mathcal{D} \left(\dot{i} - \dot{i}_{2} \right) = \mathbf{O}$ $\frac{L_2 D \cdot i_2 + \frac{1}{C_2 D} \left(\frac{i_2 - i_1}{2} + R_2 \left(\frac{i_2 - i_1}{2} \right) = e(b)}{C_2 D}$ Malha 2 $\frac{\int m_{1} \ddot{x}_{1} + b_{1} \dot{x}_{1} + b_{2} (\dot{x}_{1} - \dot{x}_{2}) + k_{1} \ddot{x}_{1} + k_{2} (\kappa_{1} - \kappa_{2})}{(m_{1} \ddot{x}_{2} + b_{2} (\kappa_{2} - \tilde{x}_{1}) + k_{2} (\kappa_{2} - \kappa_{1}) = f(t)}$ Toost WW -2000-11-T1 C C, in V e(E) 6 Vx, æ, Malla 1: 2. $L_1 D.i_1 + 1 \cdot i_1 + 1 (i_1 - 1) = 0$ $C_1 D + C_2 D + C_2 D + C_2 D$ Vx2 1f(t)

 $\mathcal{M}_{alla} 2: L_{2} D \cdot i_{2} + \mathcal{R} \cdot i_{2} + \frac{1}{c_{2}} \cdot \left(i_{2} - i_{1}\right) = 0$ m, ~ + & ~ + le2 (x - x) = f.(t) $h_{2} \dot{x}_{2} + b \dot{x}_{2} + b \dot{x}_{2} + b \dot{x}_{2} = 0$ Rz R L2 3 - T -2000-MM and were 751 e(4)\$ i2 V i3 Cz 07 B2 Malla 2: Malla 1: 1 (1=1=e(t) $L_D.i_t + R_i + R(i-i) +$ $\frac{1}{c_2 D} \frac{1}{(z_2 - z_1)} = 0$ Malla 3: $\frac{L_2 D \cdot i_3 + R \cdot i_2 + \frac{1}{2} \cdot i_3 + \frac{$ $\begin{array}{c} \left[p_{1} \left(\vec{\theta}_{1} = T(t) \right) \\ \vec{J}_{1} \left(\vec{\theta}_{2} + \vec{B}_{1} \left(\vec{\theta}_{2} + \vec{\theta}_{3} \left(\vec{\theta}_{2} - \vec{\theta}_{3} \right) + \vec{B}_{1} \left(\vec{\theta}_{2} - \vec{\theta}_{3} \right) + \vec{B}_{1} \left(\vec{\theta}_{2} - \vec{\theta}_{3} \right) \\ \end{array} \right]$ J & + b & + b (03-0) + b 03 = 0 Da lista: ester Lo 1111. 0-0100 2000 3- 2, m 6 11 5 ECT C3 1 Allem 2 T e, (t) R, A.4 8 R, E R, Cu Ry Cu 1 by Vf3(t)

Malha1: $(L_1D_1+\frac{1}{2}+R_1)i_1+(\frac{1}{2}+R_2)(i_1-i_2)+$ $+(R_{4}+1)(i_{1}-i_{3})=0$ Malla 2 : $\frac{1}{2} \frac{D - i}{2} + \left(\frac{1}{C_2} + R_2\right) \left(\frac{i}{2} - \frac{i}{2}\right) + \left(\frac{1}{C_2} + R_3\right) \left(\frac{i}{2} - \frac{i}{3}\right) = \frac{2}{3} \left(\frac{1}{2}\right)$ Malba 3: $\frac{L_3 D \cdot i_3 + \left(\frac{1}{\zeta_0} + R_3\right) \left(i_3 - i_2\right) + \left(\frac{P}{\zeta_0} + \frac{1}{\zeta_0}\right) \left(i_3 - i_3\right)}{\left(\frac{1}{\zeta_0} + \frac{1}{\zeta_0}\right) \left(i_3 - i_3\right) + \left(\frac{P}{\zeta_0} + \frac{1}{\zeta_0}\right) \left(i_3 - i_3\right)}$



 $\operatorname{Malha}^{1:} \left(L_1 D + R_1 + \frac{1}{C_1 D} \right) \stackrel{\cdot}{i_1} + \frac{1}{C_1 D} \left(\stackrel{\cdot}{i_1} - \stackrel{\cdot}{i_3} \right) = e(t)^{n}$ Malha 2: $L_2 D \cdot i_2 + R_2 (i_2 - i_3) = 0$ $Malha 3: R_2(i_3-i_2) + \frac{1}{5D}(i_3-i_2) = 0$ $M_1 \ddot{x}_1 + b_1 \ddot{x}_1 + (k_1 + k_2) x_1 - k_2 x_3 = f(t)$ m, x, + b, x, - b, x, = 0 b, x, - b, x, + k, x, -b, x, = 0 e. (t) -0000 Min eitt Li ei-1(f) r. 7- ---1 Rig 1+ 2 e, $\frac{\left(L \cdot D + Y \cdot \right)}{\left(L \cdot D + Y \cdot \right)} \frac{i}{i} + \frac{\left(R + \frac{1}{C_{i}}\right)}{\left(\frac{i}{C_{i}} - \frac{i}{C_{i}}\right)} + \frac{\left(R + \frac{1}{C_{i}}\right)}{\left(\frac{i}{C_{i}$ = e. (t) $\frac{1}{1}\frac{1}{1}\frac{1}{1}\left(\frac{1}{1}+\frac{1}{1}+\frac{1}{1}+\frac{1}{1}\right)\frac{1}{1}\frac{1}{1}-\frac{1}{1}\frac{1}{1}\frac{1}{1}-\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}-\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}+\frac{1}{1}\frac{1$ - ki-n x. - k. x. = ... (t) u (t) = u - mg ser g. com

-00000 3 R. TC, CL 12 Malla 1: $L_1 D_{i_1} + (R_1 + \frac{1}{C_1})(i_1 - i_2) = 0$ (w(t) Malla 2: $L_{2} \mathcal{D} \cdot \dot{i}_{2} + \left(R_{1} + \frac{1}{c_{p}}\right) \left(\dot{i}_{2} - \dot{i}_{1}\right) + \left(R_{2} + \frac{1}{c_{p}}\right) \left(\dot{i}_{2} - \dot{i}_{1}\right) = 0$ Wint & City Ollif Cliff - b, x2+ k, x, - k, x2=0 6.0 $m \dot{x}_{1} + (b_{1} + b_{2})\dot{x}_{1} - b_{1}\dot{x}_{1} + (k_{1} + k_{2})x_{1} - k_{1}x_{1} = b_{1}\dot{w}(b) + k_{1}w(b)$ <u>2000 - 2000 - 7</u> R1 3 Lin $Mala 1: L_1 D. i_1 + (R_1 + \frac{1}{C_1}) = 0$ 1 $L_{2}D \cdot \frac{i}{2} + \frac{(R_{1} + \frac{1}{c_{1}D})(\frac{i}{2} - \frac{i}{2}) + \frac{(R_{2} + \frac{1}{c_{1}D})(\frac{i}{2} - \frac{i}{2}) = 0}{2}$ Malla 2: $\left(R_{2}+\frac{1}{C_{2}D}\right)\left(i-i_{2}\right)=e(t)$ Malha i : 3 Substituinde (3) en (2): $L_2 D \cdot i_2 + (R_1 + \frac{1}{c_1})(i_2 - i_1) - e(t) = 0$

