

: DedlaM. (b

$$\left(L_{1}D+R_{1}+R_{2}+R_{4}+\frac{1}{C_{1}D}+\frac{1}{C_{2}D}+\frac{1}{C_{4}D}\right)i_{1}-\left(R_{2}+\frac{1}{C_{2}D}\right)i_{2}-\left(R_{4}+\frac{1}{C_{4}D}\right)i_{3}=0 \quad (I)$$

·Malha(2):

$$\left(L_{2}D + R_{2} + R_{3} + \frac{1}{C_{2}D} + \frac{1}{C_{2}D}\right)i_{2} - \left(R_{2} + \frac{1}{C_{2}D}\right)i_{1} - \left(R_{3} + \frac{1}{C_{3}D}\right)i_{3} = e_{2}(t) \quad (T)$$

· Malha 3:

$$\left(L_{3}D + R_{3} + R_{4} + \frac{1}{C_{3}D} + \frac{1}{C_{4}D} \right) i_{3} - \left(R_{4} + \frac{1}{C_{4}D} \right) i_{1} - \left(R_{3} + \frac{1}{C_{3}D} \right) i_{2} = e_{3}(t)$$
 (III)

- e) . Dr guspolis tibo T:
 - → Eq(I) se torne:

$$m_1\ddot{x}_1 + (b_1 + b_2 + b_3)\dot{x}_1 + (k_1 + k_2 + k_3)x_1 = b_2\dot{x}_2 + b_4\dot{x}_3 + k_2x_2 + k_4x_3$$

*Eq (II) se toma:

$$m_2\ddot{x}_1 + (b_2 + b_3)\dot{x}_2 + (k_2 + k_3)x_2 = f_2(t) + b_2\dot{x}_1 + b_3\dot{x}_3 + k_2x_1 + k_3x_3$$

→Eq (III) se tome: