$$\begin{bmatrix} 1_{0} & -1_{1} & -1_{1} & -1_{2} \\ 0 & 0 & 0 \end{bmatrix}$$

T(+) = Tenv +(T(0)-Tenv)ert

$$\frac{dI}{dt} = X \left[M(t) - T(t) \right]$$

$$\frac{dI}{dt} = x \left[M(t) - T(t) \right]$$
ordside inside

$$G_{tot} = \frac{2(T_1 - T_2) + q}{F_1}$$

$$q_{in} = \frac{2}{p_o} (t_o - T_1)$$

$$\dot{T}_{i} = \frac{1}{C} (H_{i} - H_{o})$$

$$\frac{dT_1}{dt} = \frac{2}{c} (T_0 - T_1) - \frac{2}{c} (T_1 - T_2) - \frac{q}{c}$$

$$\frac{2}{\Gamma_{i}} = \frac{1}{C} \left(H_{i} - H_{0} \right)$$

$$\frac{2}{CR_{0}} = \frac{2}{CR_{0}} = \frac{2}{$$

$$\begin{array}{c} \cdot \\ T_1 = \frac{1}{C} \left(\frac{2}{T_0} (T_0 - T_1) - \left(\frac{2}{TL_1} (T_1 - T_2) + 9 \right) \right) \end{array}$$

$$\frac{dT_1}{dt} = \frac{1}{C} \left(\frac{2}{\gamma_0} (T_0 - T_1) - \left(\frac{2}{p_i} (T_1 - T_2) + q \right) \right)$$

$$\hat{T}_{1} = \frac{1}{C} \left(\frac{1}{k_{o}} (t_{o} - t_{1}) - \frac{2}{k_{i}} (t_{1} - t_{2}) - q \right)$$

$$\frac{dT_{1}C}{dT} = \frac{2}{P_{0}}(T_{0}-T_{1}) - \frac{2}{P_{1}}(T_{1}-T_{2}) - 9$$

$$\frac{dt_{,C}}{dt} = \frac{2}{R_{s}}t_{o} - \frac{2}{R_{o}}T_{1} - \frac{2}{R_{i}}T_{1} + \frac{2}{R_{i}}T_{2} - q$$

$$ST_{1}(S) - T_{1}(O) = \frac{2T_{0}}{k_{0}} - \frac{2}{k_{1}}T_{1}(S) - \frac{2}{k_{1}}T_{1}(S)$$

$$ST_{1}(S) - T_{1}(O) = \frac{2T_{0}}{P_{0}} - \frac{2}{P_{1}}T_{1}(S) - \frac{2}{P_{1}}T_{1}(S)$$

$$\frac{5}{1} + 2T_{2} - \frac{4}{S}$$

$$ST_{i}(S) - T_{i}(O) = \frac{2T_{0}}{R_{0}S} - 2T_{i}(S) \left(\frac{1}{R_{0}} + \frac{1}{R_{i}}\right) + \frac{2T_{2}}{R_{i}S} - \frac{4}{S}$$

$$ST_{1}(s) - t_{1}(s) + 2T_{1}(s) \left(\frac{1}{R_{0}} + \frac{1}{R_{1}}\right) = \frac{2T_{0}}{R_{0}S} + \frac{2T_{2}}{R_{1}S} - \frac{9}{S}$$

 $T_{1}(s) \left(S + 2\left(\frac{1}{R_{0}} + \frac{1}{R_{1}}\right)\right) - t_{1}(o) = \frac{2T_{0}}{R_{0}S} + \frac{2T_{2}}{R_{1}S} - \frac{9}{S}$

$$T_{1}(S) = \frac{2T_{0}}{R_{0}S} + \frac{2T_{2}}{R_{i}S} - \frac{9}{5} + T_{1}(0)$$

$$S + 2(1/R_{0} + 1/R_{i})$$

$$T_{i}(S) = 2T_{o} \cdot P_{i} + 2T_{a} \cdot P_{o} - P_{i} \cdot P_{i} + T_{i}(c) P_{o}P_{i} \cdot S$$

$$S(P_{o}P_{i}, S + 2P_{i} + 2P_{o})$$

$$q_{\text{od}} = \frac{1}{k!} \left(7_2 - 7_3 \right) + q$$

$$f_{in} = \frac{1}{k_0} \left(T_0 - T_2 \right) + \frac{2}{k_1} \left(T_1 - T_2 \right)$$

$$\dot{T}_{2} = \frac{1}{C} \left[\frac{1}{P_{0}} (T_{0} - T_{2}) + \frac{2}{P_{1}} (T_{1} - T_{2}) - \left(\frac{1}{P_{1}} (T_{2} - T_{3}) + 9 \right) \right]$$

Cuerto •

$$q_{of} = q$$

$$q_{in} = \frac{4}{P_1} (T_2 - t_3)$$

$$T_3 = \frac{1}{C} \left[\frac{4}{R_1} \left(T_2 - t_3 \right) - 4 \right]$$