





$$u_1 = T_0$$
 $u_2 = q$

$$x_1 = T_2$$
 $x_2 = T_S$

$$SC_{\overline{z}}T_{\overline{z}} = Q - Q_{1} \qquad -o \qquad Sub \qquad Q_{1} - o \qquad SC_{\overline{z}}T_{\overline{z}} = Q - \frac{T_{\overline{z}}}{R_{1}} + \frac{T_{S}}{R_{1}} - oTrovo \quad T_{\overline{z}} \quad (1)$$

$$SC_{\overline{S}}T_{S} = Q_{1} - Q_{2} \qquad -o \qquad Sub \quad Q_{2} - b \qquad SC_{S}T_{S} = \frac{T_{\overline{z}}}{R_{1}} - \frac{T_{S}}{R_{2}} + \frac{T_{S}}{R_{2}} - \frac{T_{B}}{R_{2}} \quad (2)$$

Cr dTr = 9-91

91= Tr-Ts

Cs dTs = 91-92

 $q_2 = \frac{T_S - T_a}{R_2}$

$$dalla (2) - 0 \left(SC_{S} + \frac{1}{R_{1}} + \frac{1}{R_{2}} \right) T_{S} = \frac{T_{E}}{R_{1}} + \frac{T_{A}}{R_{2}}$$

$$L_{D} \left(SC_{S} + \frac{1}{R_{1}} + \frac{1}{R_{2}} \right) T_{S} = \frac{1}{1 + SR_{1}C_{E}} + \frac{1}{1 + SR_{2}C_{E}} + \frac{T_{A}}{R_{2}}$$