$$T = \{T_1, T_2\}$$

$$T_1 = \{T_1, C_1\}$$

$$T_2 = \{T_2, C_2\}$$

$$T_1 < T_2$$

$$T_2 = T_2$$

$$T_3 = T_4$$

$$T_4 = T_5$$

$$T_5 = T_7$$

$$T_7 = T_7$$

$$= 1 + c_1 \begin{bmatrix} \frac{1}{T_1} - \frac{1}{T_2} \end{bmatrix}$$

$$\begin{aligned}
&= 1 + \frac{C_1}{T_2} \underbrace{T_2}_{T_1} - 1 - F \\
&= 1 + \frac{C_1}{T_2} \underbrace{T_2}_{T_1} + \underbrace{FT_1}_{T_2} + \underbrace{FT_1}_{T_2}$$

$$= FT_1 + G_1 = T_2 - FT_1 = T_1$$

$$= T_2 + T_2 = T_1$$

$$U_{ub} = \frac{FT_1}{T_2} + \frac{T_2 - FT_1}{T_2} \left(\frac{T_2}{T_1} - F \right)$$

$$= T_1 + C_1 = T_1 - C_1$$

$$\frac{-T_{1}}{T_{2}} + \frac{T_{2} - F_{1}}{T_{2}} \left(\frac{T_{2}}{T_{1}} - F \right) \\
F \frac{T_{1}}{T_{2}} + \left(1 - F \frac{T_{1}}{T_{2}} \right) \frac{T_{2}}{T_{1}} \left(1 - F \frac{T_{1}}{T_{2}} \right) = 0$$

$$\frac{-T_{1}}{T_{2}} + \frac{T_{2} - F_{1}}{T_{2}} \left(\frac{T_{2}}{T_{1}} - F \right)$$

$$F \frac{T_{1}}{T_{2}} + \left(1 - F \frac{T_{1}}{T_{2}} \right) \frac{T_{2}}{T_{1}} \left(1 - F \frac{T_{1}}{T_{2}} \right)$$

$$\frac{T_{2}}{T_{2}} = \frac{T_{1}}{T_{2}} + \left(1 - \frac{T_{1}}{T_{2}}\right) \frac{T_{2}}{T_{1}} \left(1 - \frac{T_{1}}{T_{2}}\right) = \frac{T_{1}}{T_{2}} + \frac{T_{2}}{T_{1}} \left(1 - \frac{T_{1}}{T_{2}}\right) \frac{T_{2}}{T_{1}} \left(1 - \frac{T_{1}}{T_{2}}\right)$$

$$\frac{T_2}{T_2} + \frac{T_2}{T_1} \left(1 - \frac{T_1}{T_2}\right)^2$$

$$\frac{\xi_q}{(4.\xi)} = \frac{T_1}{T_2} \left[F + \left(\frac{T_2}{T_1} - F\right)^2\right]$$

$$= \frac{1}{T_{2}} + \left(1 - \frac{1}{T_{2}}\right) \frac{T_{2}}{T_{1}} \left(1 - \frac{1}{T_{2}}\right) \frac{T_{2}}{T_{1}} \left(1 - \frac{1}{T_{2}}\right)$$

$$= \frac{1}{T_{2}} + \frac{T_{2}}{T_{1}} \left(1 - \frac{1}{T_{2}}\right)^{2}$$

$$= \frac{1}{T_{2}} + \frac{T_{2}}{T_{1}} \left(1 - \frac{1}{T_{2}}\right)^{2}$$

$$= \frac{2q}{T_{1}} + \frac{T_{2}}{T_{2}} \left(\frac{T_{2}}{T_{2}} - \frac{1}{T_{2}}\right)^{2}$$