iere q \$ r are taken to be constant

I is unit matri

$$P' = P_o + (q \cdot I)$$

$$k_i = \frac{P_i'}{x_i^T \cdot P_i \cdot x_i + r} \cdot x_i$$

$$P = P_i' (1 - k_i \cdot x_i^T)$$

$$F_i = F_o + k_i [x_{i+p} - F_o^T \cdot x_i]$$

$$F_{2}' = P_{1} + (q \cdot I)$$

$$K_{2} = \frac{P_{2}'}{X_{2}^{T} \cdot P_{2}' \cdot X_{2} + r} \cdot X_{2}$$

$$P_{2} = P_{2}' \left(1 - K_{2} \cdot X_{2}^{T}\right)$$

$$F_{2} = F_{1} + K_{2} \left[X_{2+p} - F_{1}^{T} \cdot X_{2}^{T}\right]$$

