```
Torget function

y = \begin{bmatrix} y_1 \\ y_2 \end{bmatrix} \quad k_1 = \underbrace{\tilde{x}_1 \tilde{x}_1^T}_{M} \quad I_{MixM_1}

y = \begin{bmatrix} y_1 \\ y_2 \end{bmatrix} \quad k_2 = \underbrace{\tilde{x}_1 \tilde{x}_2^T}_{M} \quad I_{MixM_2}

Q_{min_{\Delta}} = 11 \text{ yy} - (G_{g_1}^2 k_1 \text{ y_3 k_4}) - (G_{e_1}^2 I_{M_1} \text{ ye} (G_{e_2}^2 I_{M_2}) - (G_{e_3}^2 I_{M_2}) - (G_{e_3}^
                                                  \frac{\partial \mathcal{Q}}{\partial \mathcal{E}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{1}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \Delta}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \Delta} \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{G}_{2}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}, \quad \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} = \frac{\partial \mathcal{Q}}{\partial \mathcal{Q}} \frac{\partial \mathcal{Q}}{
                              \frac{\partial \mathcal{O}}{\partial Y_{q}} = \frac{\partial \mathcal{O}}{\partial \Delta} \frac{\partial \Delta}{\partial Y_{q}} , \quad \frac{\partial \mathcal{O}}{\partial \mathcal{V}_{e}} = \frac{\partial \mathcal{O}}{\partial \Delta} \frac{\partial \Delta}{\partial Y_{e}}
                      回 女中 3点=2[yyT-(6g,K, YgKa)-(6e, In, YeC)]
(ではないでは、 YgKa 6g,kz)-(6e, In, YeC)
                     \frac{\partial \Delta}{\partial G_{9}^{2}} = \begin{pmatrix} K_{1} & O \\ O & O \end{pmatrix} \qquad \frac{\partial \Delta}{\partial G_{6}^{2}} = \begin{pmatrix} I_{N_{1}} & O \\ O & O \end{pmatrix} \qquad \frac{\partial \Delta}{\partial Y_{9}^{2}} = \begin{pmatrix} O & K_{A} \\ K_{A} & O \end{pmatrix}
                                                                                                                 \frac{\partial \Delta}{\partial G_{2}^{2}} = \begin{pmatrix} 0 & 0 \\ 0 & k_{2} \end{pmatrix} \qquad \frac{\partial \Delta}{\partial G_{e_{2}}} = \begin{pmatrix} 0 & 0 \\ 0 & I_{H_{2}} \end{pmatrix} \qquad \frac{\partial \Delta}{\partial \mathcal{E}} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}
3
                                                     20 = 2 tr & y, y, Tk, - 6g, K, K, - 6e, In, K, } = 0
                                                                20 = 2+18 y2 1 k2 - 69. K. KI - 602 IN. K2 3 =0
                                                                                                                    30 = 2 tr 8 y. y. In - 69 k In - 60 I'm 3 = 0
                                                                        20 = 2 tr Synz Kat + y, y, Ka - Ka. Katry - Ka. Katry - C. Katre - CT Ka. Ye} = 0
                                                                                                                   ab = 2tr & y, y, TCT + y, y, TC - KA. CTYE - KA. CYE - C.CTYE - CTCYE 3=0
                                                                   因为 Ka·Kat, C·Kat, YiYI Kat 是 Square matrix
                                                                                     (KA·KAT)= tr(KA·KAT)= tr(KA·KA), tr((·KAT)= tr(KA·CT), tr(Y,YTKAT)= tr(Y,YTKAT)=
                                                                                 30 = 4tr $ y, y, T KAT - KA KAT rg - CKAT re } = 0
                                                                    团为 KACT, CCT, Y.Y.TCT 是 99 ware martrix
                                                                         20 = 4 tr { y,y, TCT - KA CTre - (CTre }=0
```