Tuesday, April 21, 2020 6:00 PM

$$g_{0,K} = \nabla_{0} \| \mathcal{X}_{K} - f_{0}(\mathcal{Y}_{K}) \|^{2}$$

$$= \nabla_{0} (\mathcal{X}_{K} - f_{0}(\mathcal{Y}_{K})) \mathcal{X}_{K} - f_{0}(\mathcal{Y}_{K})$$

$$g_{0,K} = -2 (\mathcal{X}_{K} - f_{0}(\mathcal{Y}_{K}))^{T} \mathcal{X}_{0} f_{0}(\mathcal{Y}_{K})$$

$$\mathcal{E}_{K}^{T}$$

$$\mathcal{E}_{K} = -2 (\mathcal{X}_{K} - f_{0}(\mathcal{Y}_{K}))$$