中頓推導

泰勒展開 d(x) < f(xx)+ √f(xx) (x-xx)+ = (x-xx) / f(xx)(x-xx) (dx) (xk)

 $\int_{0}^{\infty} (xk) + \nabla \int_{0}^{\infty} (xk)^{T} (x-xk)^{T} + \frac{1}{2} (x-xk)^{T} + \frac{1}{2} (xk) (x-xk)^{T} = 0$

 $H(xk)(x-xk)=-\frac{1}{2}I(xk)$ $\chi - \chi_k = - H(\chi_k)^{-1} \varphi f(\chi_k)$

XK+1 = XK-H(XK) V B(XK)

 $|Ax-b|^2 = (Ax-b)^T (Ax-b)$ = 2AT(Ax-b)

XK+1= XK- HOW Of(XK) = XK - (2ATA) - VJ(XK)

= $-(2A^{T}A)^{-1} \cdot 2(A^{T}A \times k - A^{T}b)$ = $\chi_{b} -(2A^{T}A)^{-1} \cdot 2A^{T}(A \times k - b)$ 11 (201/ak-b))