```
ALL BY- y=0
                                                                V = [5,... Sp 2,... 2,..]
                      y= Ax+ Z

axl land nxi
                                X = 5' + e

Slockwell

Mail North Mel
                                     A = (A a A) A ay y = 64
                                        Sandy (A-4x) = P.)
                                                                                                                                                         [E{\hat{n}} = 7
                                                                           ex=x- 2
                                                                                 \frac{e_{x} = x - x}{e_{x} = x - Gy} = x - G(Ax + Z)
= x - GAx - GZ
= x - x - GZ

e_{x} = -GZ
                                                                                                                                                                                    (ATON A) AON A
                                                                         \underbrace{Q_{\hat{A}} = \left\{ e_{x}e_{x}^{T} \right\} = \left\{ \left\{ c_{z}z_{0}^{T} \right\} = G\left[ e_{x}^{T}z_{0}^{T} \right] \right\} - \underbrace{GQ_{11}}_{Q_{11}} e_{x}^{T}}_{Q_{11}} = \underbrace{GQ_{11}}_{Q_{11}} e_{x}^{T}
                                                                          Q2 = (ATQT A)
                                                                                                                                                                                                                                                             L^{T} = (T - AG)^{T} H^{T}
                                                                                                                                                                                  L=H(I-AG)
                                                                                                                                                                                                                                                                         =HT-GTATHT
3-Q-10-11 (1-AZ) 3=1-y= H(I-AG)y
                                                                         L=Q-4Q-1 [1-A(A-Q-1)-A-Q-1)
                                                                                                                                                                                                                                                                              = Q7 Qys - Q11 A (AQY) A) A Qy7 Qys
                              (LA) = H(r-AG) A = H(A-AGA) = H(A-A) = Q A(A-A) A(A
                                                                                                                                                                                                                                                                            = Qyr [Qys - A(ATQYY A) ATQYYQYS]
                                             Es=5-3=5-Ly
                                                                                                                                                                                                                                                                           = Qy [I - A (ATQY A) ATQY ] Qys
                                                                            = 5 - L (A1+Z)
                                                                               = S-LAM-LZ= S-LZ = S-H(E-A6)2
                                Q_{S} = E\left\{e_{S}e_{S}^{T}\right\} = E\left\{\left(S - Lz\right)\left(S^{T} - Z^{T}L^{T}\right)\right\}
                                                                                 = E { SST-LZST-SZTLT+LZZTT
                                                                      Q3 = Q5 - LQ15 - Qy T+ LQ11LT
                                                                      Lays = as1 a11 [1-A(A a11 A) A a11 ] ays
                                                                        Lays = asy LT LT «
                                                                          Land - and and comment of the commen
                                                                                                      = Qy Qy [[-A(ATQy A) ATQy] Qys
                                                                     = Q<sub>51</sub>Q<sub>11</sub> [ F-A(AQ<sub>11</sub>'A) AD<sub>11</sub> ] Q<sub>15</sub>
LQ<sub>11</sub>LT = (Q<sub>51</sub>LT)
                                                                          Q3 = Qss - Lays - Osy h + Lay LT
                                                                                         = Q5 - LQ15 - Q57 LT + Q54 LT
                                                                              Q3 = Q5 - LQ45
                                                                                     Q3 = Qss - Qsy Qyy [I - A(ATQN A) ATQN ] Qys
                                                                                                                                                                                                                                                                                                                                                    Qy Qys Qss
                                                                                                          = Q55 - Q51 Q41 Q75 + HAQ2 ATHT
                                                                                                  F(v) = f(v)+5(v)
                                                                                                                                                                                                               الرياء الوغير العالم الع
                                                                                                  y=F(v)+ei
                                                                                                 s' = 5(4)
                                                                                                                                                                                                                                                                                                                               Qsy Pxm
U, V
                                                                                                   y; = $(ui) + $i+ei
                                                                                                   f(u)= b1+ b2u + b3u2+ ... - + bnun-1
                                                                                                                                                                                                                                 x= [ b bz .... bn] T
                                                                                                            1 U, U, U, U, I
                                                                                                                                                                                                        2 - (ATON A) ATON Y
                                                                                               A-
Man
                                                                                                                                                                                                               (21) - (255) + (2ee)
                                                                                                                                              F(v;)
<u>s(v;)</u>
                                                                                                                                                                                     E\{s's'\} = C(f) = \frac{1}{2(a-r)} \int_{-a+r}^{a-r} \frac{s(s(u) s(u+r) d}{s(u-r)} du
                                                                                                                                                                                                                       cin= Geger2
                                                                                                                                                                                                        Cov(S'_{i},S'_{j}) = C(r_{ij})
distribute (i.j.) \qquad r_{ij} = |U_{i} - U_{j}|
                                                                                                                                                                                                                                                                                                                                                  Q11 - Q51 + Q10
                                                                                                                                                                                                             Qsj = car (Si, Sj) = Clr'ij)
                                                                                                                                                                                                                                                                         Kil = | 41-41
                                                                                                                                                                                                                       $ - Q 61 Q 1 (4- Ax)
                                                                                                                                                                                                                                  Q3 = Q3, - Q, 4 Q4 Q13 + HAQ2 ATH
```