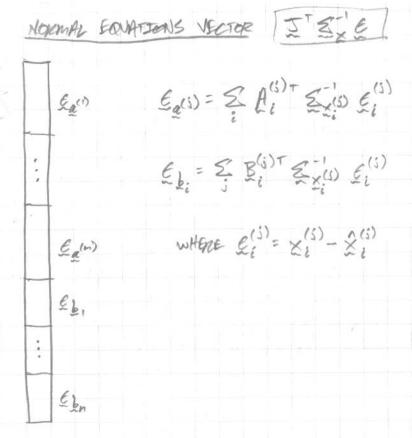
TSPARSE LEVENBERG-MARQUARDT FARAMETER VECTOR &= (a(1)T, ..., a(n)T, b, ..., bn)T MEACUPEMENT VECTOR X = (X(1)T, ..., X(1)T, ..., X(m)T, ..., X(m)T)T SUCH THAT X (5) ARE UNCONNEURTED JACOBIAN 22 A(i) = 7 \(\hat{\chi}(i)\) $B_i^{(j)} = \frac{2}{2} \hat{X}_i^{(j)}$ B(m) I Z Z NOGHAL EXVATIONS MATRIX U(1) = Z A(5) T Z X(3) A(5) 0(1) m(1) ... M(1) Vi = & Bi Zx(1) Bi $W_{i}^{(s)} = A_{i}^{(s)} \underbrace{\mathbb{E}_{\mathbf{x}^{(s)}}}_{\mathbf{x}^{(s)}} \underbrace{\mathbb{E}_{i}^{(s)}}_{\mathbf{x}^{(s)}}$ MATREX 15 U(S) AND V; AME SYMMETRIC SYMPLETESE M(m) (m) ... W(M) W(M)T WIDT W(m)T N/V



Authorited Normal Equations matrix
$$Z = V - W V - W$$

$$S(i,i) = V(i) \times - S W_{i}(i) V_{i} - W_{i}(i)$$

$$S(i,n) = V(i) \times - S Y_{i}(i) W_{i}(i)$$

$$= V(i) \times - S Y_{i}(i) W_{i}(i)$$

$$S(i,n) = -S W_{i}(i) V_{i} - W_{i}(i)$$

$$S(i,n) = -S W_{i}(i) W_{i}(i)$$

$$S(i,n) = -S W_{i}(i) W_{i}(i)$$

$$S(i,n) = -S Y_{i}(i) W_{i}(i)$$

ANGMENTED NORMAL EQUATIONS VECTOR
$$Q = Q_{i} - WV^{*}Q_{i}$$

$$e^{(i)} = Q_{i} + ZV^{(i)}V^{*}Q_{i} + Q_{i}$$

$$= Q_{i} - ZV^{(i)}Q_{i} + Q_{i} + Q_{i} + Q_{i}$$

$$= Q_{i} - ZV^{(i)}Q_{i} + Q_{i} + Q_{i}$$

PROJECTION, RUNNE TO PURNE

PARAMETERSZED POSITS ON A PLANE

THE POINTS XI ON THE PLANE IT MAY BE WASTIEN AS

XT = MXI, WHERE M IS THE NULL SPACE OF IT (I.E., IT M: OT)

PROJECTION

(x= m+x=)

x= LXT

X= PMXI

X = HIXA, WHERE HI = IM

MOSECTIAN, QUATRIC TO CONTE

THE CONTOUR GENERATOR I 14 THE SET OF POINTS X and the smooth surface S at which prays are tangent to the surface. The connectendent image approximate contour X is the set of points X that are the image of X, I, I, I is the image of I.

THE CONTOUR GENERATOR I OF A QUATRETE & IS A PLANE CONTE CO. ITS IMAGE & IS ALSO A CONTE C. THE PLANE OF I FOR A QUATRETE & AND CAMBRA & WITH CENTER & IS 6IVEN BY

- DO C CAMBRIA CENTER, NOT CONSIC

II = QC

PARAMETERIZED POINTS ON A PLANE

THE POTATTS ZE ON THE PLANE IT MAY BE WATTEN AS

XI = MXI , WHERE M IS THE MUN SPACE OF IT (I, E, IT M = QT)

PROJECTION

XIT Q XI = 0

(M XI) T Q M XI = 0

XIT MT Q M XII = 0

XIT GI XII = 0

WHERE CI = MTQM

X= PMX+ X= PMX+ X= H_ X+ WHERE H_ = PM

 $C = H_{\perp}^{\perp} C_{\perp} H_{\perp}^{\prime}$ $C = (PM)^{-1} M C M (PM)^{-1}$