JAPHYAY A NISARG

196530031

If we take A = I (identity notains in U×U)

> then we want to minimise 11 Asc-all withe the constraint that $S_{\alpha_i} = \beta$

En

00000 and d= [B]

we can weithe this as Coc=d.

This is a constrained LS situation.

The KKT matrix is formed as

$$\begin{bmatrix} 2 & A^T & A & C^T \\ C & O \end{bmatrix} = \begin{bmatrix} 2I & C^T \\ C & O \end{bmatrix}$$

The rolution is given by & where

$$\begin{bmatrix} \hat{A} \\ \hat{\Delta} \end{bmatrix} = \begin{bmatrix} 2I & C^{T} \end{bmatrix} \begin{bmatrix} 2\tilde{A} & \alpha \\ C & O \end{bmatrix} \begin{bmatrix} 2\tilde{A} &$$