2007 N X Ktl colums Last column all I's col feature 10W

combred coordinates: change each feature so that average yeale of the modified feature is zero.

(Assume that every one of the first k columns of ? X sums b zero.

$$X^{T}(Y-XM)=0$$

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Xo = NxK metrix of class without last column

$$D^{\circ} = \chi^{\circ}_{\perp} \chi^{\circ}$$

$$D_{-1} = \begin{pmatrix} \circ \cdots \circ \mathcal{W} \\ D_{-1} & \vdots \end{pmatrix}$$

$$W = D_{\perp} \times_{\perp} \times_{\perp} \qquad \begin{pmatrix} 0 & \cdots & \omega_{1} \\ D_{-1} & \vdots \\ D_{-1} & \vdots \end{pmatrix} \begin{pmatrix} 1 & 1 & 1 & 1 \\ X_{\perp} & \vdots \\ X_{\perp} & \vdots \\ X_{\perp} & \vdots \end{pmatrix}$$

$$W = D_{\perp} \times_{\perp} \times_$$