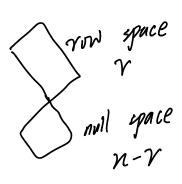
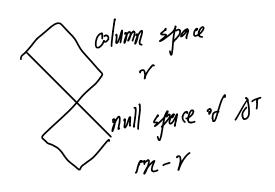
Orthogonal:正文





Orthogonal rectors: I xT.y=0

Subspace S is orthogonal to Subspace T. =) every vector in S is orthogonal to vector in T.

Condusion: how space is orthogonal to mill space of AT

Why? if x in null space, Ax = 0 $\begin{bmatrix} row1 \\ i \\ rown \end{bmatrix} \begin{bmatrix} x \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

So. This orthogonal to every now of A any combination of row A is orthogonal to T.

Solve Ax = b, if it has no solution $A^{7}A\hat{x} = A^{7}b$ $N(A^{7}A) = N(A)$

ATA is invertible exactly A has independent columns.