2025年9月29日 13:54

Ax=b and Ax=u

Ax=b his a solution when be CLB

Given any man matrix A

P- P1, ..., P2

L = Z1 EC

PLD: LW , rowechlor form

PA-LU

U=DW > for non-square matrices.

u is ref (now edhelon form) ũ=ER

Prop: NLAD=NIW) = NIW) = NLR)

Pf: PA=LU

Ax=06> LL'P) Ax=0

solve from bottom ,

07:

minimal size of examing set = \$\iff \text{of free variables}\$

= n/non-zeronas

CLD= (\lambda -1 | \lambda \lambda \lambda | \lambda \

CLD= Sae(8)+be(8) }

null space: $N(A) = \{\vec{x} \in \mathbb{R}^n \mid A\vec{x} = 0\}$ is a subspace of \mathbb{R}^n

column space: CLAD= 5 BORN | B=A7 for some x in IR)