
Subject: Decompose a matrix

Posted by [d.poreh](#) on Wed, 19 Dec 2007 12:15:42 GMT

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Folks

I have a problem could anyone help me?

Let:

$A = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix}$, \$

$\begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix}$, \$

$\begin{bmatrix} 0 & 0 & 0 \end{bmatrix}$

$B = [0.5, 0.5, 1]$

; Decompose A

SVDC, A, W, U, V

; Solve $A.X=B$

$X=SVSOL(U, W, V, B)$

$new_B=A##X$

IDL> print,new_B

0.500000

0.500000

0.000000

Why new_B is not equal to B' ?

Thanks for any help in advance

Cheers

Dave
