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Ax = b = 0 $\begin{vmatrix} 1 & \frac{1}{2} & \frac{1}{2} \\ 1 & -\frac{1}{2} & \frac{1}{2} \\ 1 & -\frac{1}{2} & \frac{1}{2} \\ 1 & -\frac{1}{2} & \frac{1}{2} \\ 1 & \frac{1}{2} & -\frac{1}{2} \\ 1 & \frac$

A7A = 030 A7b = 3

线性游绎

1. f3(t)= = + = Los 27 t

11e1/2 PMSE= \ (1/6) +



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送择模型 トマ(t)=L,+C, cos22でも+C, sin2でもナC4 cos4でも
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
1-101 [3 -1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$A^{T}A = \frac{1}{3}$ $A^{T}b = \frac{1}{0}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
3
1. F4(t)= + = cos > 2t - ws4xt
$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}$
1 - 1 - 2 - 1 - 2 3
r-b-Ax= 1 - 1 - 2 - 3 - 3 - 3
1 -1 -1 3
$(1/6)^{2}+(2/3)^{2}+(2/3)^{2}+(1/3)^{2}+(1/3)^{2}+(1/3)^{2}$ $= \frac{1}{2}$
11ell2 RMSE2 (1/6)+(1/3)



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Sichuan University 4(a) (-2,4), (-1,2), (1,1), (2, =) y=c, eat =) lny=lnc, +czt=k+czt 色拜模型 2/12] [21n2]L1 2 ln 2 lnz 铁生好 => => 4= 2 = -7. t 1. My - 52 - 7 ln 2 t 4 (1) = 2

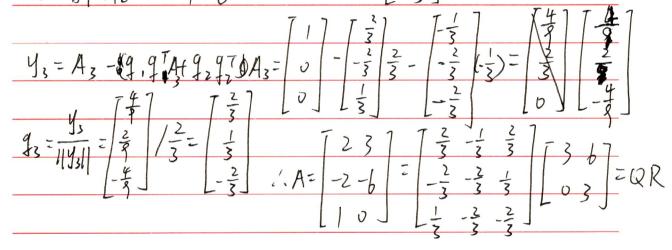


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页

Sichuan University P1884-3 Yz = Az - 9,97Az (2+4) 12=11/2/12/12+2+2=3

V12= 91 Az=2+4=6



6(a) = X=[2,-2,1]T, 1|X1| = 3, w, = [1X11, 0,0]T=[3,0,0]T V, = W, -X, = [3,0,0 H,A= Ø



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 $X_{2} = [0, -3]^{T}, ||X_{2}|| = 3, w_{2} = [3, 0]^{T}$ $V_{2} = w_{2} - X_{2} = [3, 0]^{T} - [0, -3]^{T} = [3, 3]$

 $H_2 = I - 2 \frac{V_2 V_2^7}{V_2^7 V_2} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} - \frac{2}{18} \begin{bmatrix} 99 \\ 99 \end{bmatrix} = \begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$

H2H, A= 00-1 00 = 03 = R

 $Q = H_1 - H_2 - H_3 - H_4 - H_2 - \frac{1}{3} - \frac{1}{3} + \frac{1}{3} - \frac{1}{3} -$

 $= \sum_{i=1}^{n} \frac{3}{3} \frac{6}{3} \frac{1}{3} \frac{X_{i}}{1} = \begin{bmatrix} \frac{7}{3} \\ \frac{2}{3} \end{bmatrix} = \begin{bmatrix} \frac{1}{3} \\ \frac{2}{3} \end{bmatrix}$