| Sunday, June 18, 2023 7:30 PM $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
|---|----------|
| 11) | |
| A= 100 アリント -1 A ののの マリン 入 E - A= -1 A 数有: | |
| 数有: | |
| 型有: | |
| 数有: $(\lambda-1)\lambda^2 - \lambda \cdot (-1)(-2) = 0$ | |
| $(\lambda - 1)\lambda^{2} - \lambda \cdot (-1)(-2) = 0$ | |
| | |
| $(\chi-1)\chi^2$ $-2\chi=0$ | |
| $\frac{1}{\sqrt{\lambda-1}-2} = \lambda \left(\lambda^2-\lambda^2-2\right) = \lambda(\lambda-2)\left(\lambda+1\right)$ | |
| 3(3(01)) 2 3 4 (1) | |
| | |
| 有特征道:小一0,2=2,2=-1、对应特征向量: | |
| 球法: | |
| 献:代入:八二0、 $\lambda E - A = 0$ 、 | |
| 入2=0 < 大小排房 | |
| $\begin{bmatrix} 1 & 2 & 0 \end{bmatrix} \begin{bmatrix} X_1 \end{bmatrix}$ | |
| 100 χ_2 $\chi_2 = \frac{1}{2}\chi_1$ $\longrightarrow \chi_2 = 0$ | |
| $\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} \begin{array}{c} X_3 = -X_1 - X_2 = 0 \\ X_3 = -X_1 - X_2 = 0 \end{array}$ | |
| $\lambda_i = 2$ | |
| $\begin{bmatrix} 1 & -2 & \begin{bmatrix} x_1 \\ \end{bmatrix} & x_1 = 2x_2 & \begin{bmatrix} 2 \\ \end{bmatrix}$ | |
| $\left \begin{array}{ccc} -1 & 2 \\ \end{array} \right \left \begin{array}{ccc} X_2 \\ \end{array} \right \qquad X_3 = 0 X_7 \left[\begin{array}{ccc} 1 \\ \end{array} \right] \qquad \text{ for } X_5 = S^5 = S^5$ | |
| | |
| | |
| $\lambda_3 = -\begin{bmatrix} -2 & 2 & x_1 = -\lambda_1 \\ -1 & -1 & x_3 = 0 \end{bmatrix} \qquad \begin{bmatrix} E^u = span[2, 1, 0] \\ \end{bmatrix}$ | |
| | |
| 127 | |
| [-1-10] 点: >+1 | |
| $A_2 = - 0 \lambda E - A_2 = - \lambda + = (\lambda + 1)^2 (\lambda - 2) \bullet - (\lambda - 2)$ | .) ·(-1) |
| $\begin{bmatrix} 0 & 0 & 2 \end{bmatrix}$. | |
| 在此种情况下,有对特征值,但其实有计 | =0 |
| $2(\lambda-2)(\lambda+1)=0 = (\lambda-2)(\lambda^2+2\lambda+2):$ | = Q |
| λ=2. λ=- λ=- λ=- + i | |

