ch5. Jordan Loyets. HAEMIFI. A 计部阵 问题 A ~ 对即唯一维阵 $\text{pef. } \overline{\mathcal{A}}_{i} = \begin{pmatrix} \lambda_{i} & \lambda_{i} \\ \lambda_{i} \end{pmatrix}_{m_{i} \times m_{i}} = \hat{\mathcal{A}}_{i} \xrightarrow{\mathcal{A}} \overline{\mathcal{A}}_{m_{i}} (\lambda_{i})$ # for m. P5 Jordan ek, do (3 3), (-5), ... 的f. 由若广了ordan 欧阳的二月和南野丁二个元、九 75 % Jordan Loyle#3 des (12i 4i)

Th (Jordan 73/4/232) 和作的数键样A却与一步Jordan taylets
相似。这个Jordan taylets 作为其中 Jordan exis
和知识为一种和中国的一种之一种之一种之一和之一对对 $\forall A. A \sim J_A = \begin{pmatrix} J_1 & J_2 & J_3 & J_4 & J_5 & J_6 &$

一、春季游戏- Jordan Fortens 九了了 pef. A我将暴寒馆唯, 如了日本数 m, 子 A^m=0 且 A^{m-1} = 0. 数如为军事的数 作下。① A-最大机场入.

② A:指松坑至和0.

 $A \sim N = \begin{pmatrix} N_1 \\ N_2 \end{pmatrix}, \quad A \sim N = \begin{pmatrix} N_1 \\ N_1 \end{pmatrix}, \quad A \sim N = \begin{pmatrix} N_1 \\ N_2$

Th. 这种情景群 A: Jordan 标准多为 $N = \begin{pmatrix} N_i \\ N_i \end{pmatrix}$, $P = \begin{pmatrix} N_i \\ N_i \end{pmatrix}$ $N_i = \begin{pmatrix} N_i \\ N_i \end{pmatrix}$ 春季指数为 m. 到 om = max {ni: 1=1=5} 3) A-亭边 7 = No Jordan th: Tas S 3) RN + Rety Jorden ex- 1 to 2 & lk, At Fight 7k, 2) 1=2/1-1/2=28-1/2 lk = 2/k-7/k+-7/k+1, 25/k & m.

| | (1-4)-7 | 2-10 | 1 2 | 1=1 | 11 | 4 | |
|-----------|-------------------------|-------|-----|--------|-----------------|---|--|
| | = \(\sum_{\kappa_1} \) | lk . | | | | | |
| | 心事度 二 | 2 2 . | 5 | 2.3 | r ii | | |
| $I = A^2$ | 二零度 二月 | 一之俊 | = 2 | No and | 3_ | | |

例. 中著中 A= (1017) in Jordan 扩射电影 N. 并主义操作P, a PAP=N. 13-: A=考核 1 = n-rank (A)=4=2=2 to Jordan to 152 \$=2 => l=2/1-1/2=0 $N = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}, \text{ The 424 5PF is 124 Jordan th. } 25 29 204 Jundanth$

G

of PAP=N, (=) AP=PN 2 p= (d, d2, d3, d4) $A(d_1, d_2, d_3, d_4) = (d_1, d_2, d_3, d_4) \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 1 \end{pmatrix}$ = (0, 2, 0, 2) Ep Ad, =0, Adz=d, Ad, =0, Adx=d3 $Ax=b \text{ Total} => \{b_2=b_3, b_1+b_2+b_4=0\}$

国地山水明飞岛是田

$$\begin{cases}
\chi_1 + \chi_3 + \chi_4 = 0 \\
\chi_1 - \chi_3 = 0
\end{cases}
\Rightarrow \chi_1 = \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}, \quad \chi_2 = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{cases}
\chi_1 + \chi_3 + \chi_4 = 1 \\
\chi_1 - \chi_3 = 0
\end{cases}
\Rightarrow \chi_2 = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{cases}
\chi_1 + \chi_3 + \chi_4 = 1 \\
\chi_1 - \chi_3 = -1
\end{cases}
\Rightarrow \chi_4 = \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}$$

$$\begin{cases}
\chi_1 + \chi_3 + \chi_4 = 1 \\
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\end{cases}
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\end{cases}
\Rightarrow \chi_4 = \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}$$

二·用处理中与Jordan 年到专行的本行 Th. 和加为A:接征值,现(A-ME)的产品。 JA中部的线之李为从·尼约 Jordon 保山域以上。 到on,=Japar的成立专为从:Jorden快:YER 2 l = 2/1, -1/2 lk = 2/12-1/12-1/12+1, k7,2

对每年经验,许多是

13. In
$$A = \begin{pmatrix} 3 & 1 & 0 & 0 \\ -4 & 1 & 0 & 0 \\ 3 & 4 & 1 & 1 \end{pmatrix}$$
: Jordan toletis \int_{A} .

At P , P Pt $P = \int_{A}$

The $A = (A-1)^{4}$, the $A = (A-1)^{4}$ the A

$$\frac{1}{\sqrt{2}} P^{\dagger}AP = \int_{3a}^{3a} \frac{1}{\sqrt{2}} P = (d_1, d_2, d_3, d_4)$$

$$= (d_1, d_1 + d_2, d_2 + d_3, d_4)$$

$$= (d_1, d_1 + d_2, d_2 + d_3, d_4)$$

$$= (d_1, d_1 + d_2, d_2 + d_3, d_4)$$

$$= (E-A)d_1 = 0, \quad (E-A)d_2 = -d_1, \quad (E-A)d_3 = -d_2, \quad (E-A)d_4 = 0$$

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$$= (E-A)d_1 = 0, \quad (E-A)d_2 =$$

For (E-A) X=0 14 d= (0,0,1,-1), d= (-1,2,1,0)

 $(E-A)\chi=0$ if $d_1=(0,:0,1,-1)^T$, $d_4=(-1,2,1,0)^T$ $(E-A)\chi=-d_1-3$ $d_2=(1,-2,0,0)^T$

 $(E-A)\chi = -d_1 \implies d_2 = (1, -2, 0, 0)^T$ $(E-A)\chi = -d_2 \implies d_3 = (-1, 3, 0, 0)^T$

$$\begin{array}{lll}
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