QR
$$\overline{M}$$
 \overline{M} \overline{M}

QTAQ = (Ring) 就是一个具有一对直共轭特全位的 2×2 年间

假股Rin有一对复艺矩特征值, Rin=(cab)

可求出 特征值入, 入, 和特征问值 V, 丁.

$$\widetilde{O}_{1} = (V, \widetilde{V}) \qquad \text{and} \qquad \widetilde{O}_{1}^{H} R_{11} Q_{11} = (X, X)$$

$$Q_1 = (\widetilde{Q}_1 I_{n-2})$$

$$\widetilde{Q}_{1} = (V_{1}\widetilde{V}) \qquad \widetilde{Q}_{1}^{H} \widetilde{Q}_{1}^{H} R_{II} Q_{II} = (\Sigma)$$

$$Q_{1}^{H} Q^{T} A Q Q_{1}^{H} = (\Sigma)$$

$$= (\widetilde{Q}_{1} | \Gamma_{n-2})$$

A对应入加特征问题: QQI加第一到

$$R_{11} = \begin{pmatrix} 1 & 2 \\ -3 & 4 \end{pmatrix}$$

$$(\lambda - 1)(\lambda - 4) + 6 = 0$$

$$\lambda^{2} \leq \lambda + (0 = 0)$$

$$\lambda = \frac{5}{2} + \frac{\sqrt{5}}{2}$$

$$R_{11} - \lambda I = \begin{pmatrix} -\frac{3}{2} - \frac{\sqrt{3}}{2}i & 2 \\ -\frac{3}{2} - \frac{\sqrt{3}}{2}i & \frac{3}{2} - \frac{\sqrt{3}}{2}i \end{pmatrix}$$

$$V = \begin{pmatrix} 2 \\ \frac{3}{2} + \sqrt{6} i \end{pmatrix}$$

$$V = \begin{pmatrix} y - \alpha \end{pmatrix}$$