Example 6.]

$$P = \begin{bmatrix} 1-a & a \\ b & 1-b \end{bmatrix}$$
 Q: $Z(h) = ?$

Casel $a = b = 0$
 $P = \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$
 $Z(h) = Z(0)P^{h} = Z(0)I = Z(0)$
 $Z(h) = Z(0)P^{h} = Z(0)I = Z(h)$
 $Z(h) = I$
 $Z($

$$= \begin{bmatrix} (1-\alpha)^2 + ab & (1-\alpha)\alpha^2(1-b) \\ b(1-\alpha)(1-b) & ab(1-b)^2 \end{bmatrix}$$

$$p^{3} = \begin{bmatrix} (1-\alpha)^{2} + ab & (1-\alpha)\alpha^{2}(1-b) \\ b^{2}(1-\alpha)(1-b) & ab(1-b)^{2} \end{bmatrix} \begin{bmatrix} 1-\alpha & \alpha \\ b & 1-b \end{bmatrix}$$

$$= \begin{bmatrix} (1-\alpha)^{3} + ab(1-\alpha) + a^{2}b & (1-a)(1-b) & a(1-\alpha)^{2} + a^{2}b + a^{2}(1-a)(1-b)^{2} \\ b^{2}(1-\alpha)^{2}(1-b) + ab^{2}(1-b)^{2} & ab^{2}(1-a)(1-b)^{2} \end{bmatrix}$$

$$\frac{(1-b)}{a(1-a)^2+a^2b} + a^2(1-a)(1-b)^2$$

$$\frac{ab^2(1-a)(1-b)}{ab(1-b)^3}$$

① 特征值_

=
$$[-a-b+ab-(-a+1-b)\lambda+\lambda^2]$$

$$(1-a-\lambda) = (x+b-\lambda)$$

$$(1-b-\lambda) = (x+b-\lambda)$$

=
$$\times tab - [2 - a - b]\lambda + \lambda^2$$

$$\lambda = \frac{1 + x \pm (F + x)}{2} \qquad \lambda_1 = 1 \quad \lambda_2 = x$$

$$\chi = 2\chi$$

①皆化(建
$$\lambda_1 = 1$$
 $(p-2) \nu = 0$

$$\begin{bmatrix}
-\alpha & q & J & \nu_1 & J & \nu_2 & J & \nu_3 & J & \nu_4 & J$$

③对新纯矩阵P

$$V = \begin{bmatrix} 1 & a \\ 1 & -b \end{bmatrix}$$

$$V = \begin{bmatrix} 1 & 0 \\ 0 & x \end{bmatrix}$$

$$|V| = -\begin{bmatrix} a+b \end{pmatrix}$$

$$V = \frac{1}{-(a+b)} \begin{bmatrix} -b & -a \\ -1 & 1 \end{bmatrix}$$

$$\lim_{N\to\infty} p^{\alpha} = \begin{bmatrix} \frac{b}{a+b} & \frac{a}{a+b} \end{bmatrix}$$

$$X_0 = 0 \quad Z(0) = \begin{bmatrix} 1 & 0 \end{bmatrix}$$

$$Z(n) = Z(n) p^{\alpha} = \begin{bmatrix} 1 & 0 \end{bmatrix} \xrightarrow{a+b} \xrightarrow{b+a+b} a - a \xrightarrow{a+b} \begin{bmatrix} b+a+b & a-a+b \end{bmatrix}$$

$$= \frac{1}{a+b} \begin{bmatrix} b+a+a & a-a+b \end{bmatrix}$$

$$X_0 = 1 \quad Z(n) = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$X_0 = 1 \quad Z(n) = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$X_1 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_2 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_3 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_4 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_1 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_2 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_3 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_4 = \frac{1}{a+b} \begin{bmatrix} b-b+a & a+b+a \end{bmatrix}$$

$$X_$$