(4) 稳后脚

Solution state space for
$$X \in S = \{0, 1, 2, 3\}$$

if $X \in \{0, X \in \{0, 1, 2, 3\}\}$
 $X \in \{0, 1, 2, 3\}$
 $X \in$

TPM
$$P = \begin{bmatrix} 0.08 & 0.184 & 0.368 & 0.368 \\ 0.632 & 0.368 & 0 & 0 \\ 0.264 & 0.368 & 0.368 & 0 \\ 0.08 & 0.184 & 0.368 & 0.368 \end{bmatrix}$$

$$C(C) \quad Z_{ij} = \lim_{n \to \infty} P_{ij}(n) = \lim_{n \to \infty} P_{ij}(x_{ij}) = \lim_{n \to \infty} P_{ij}(x_{ij})$$

(c)
$$Z_{i} = \lim_{n \to \infty} P_{i}(n) = \lim_{n \to \infty} P_{r}(X_{n} = j)$$

[ex $Y = [Z_{0} \ Z_{1} \ Z_{2} \ Z_{3}]$

$$\begin{cases} Y = YP \\ Z_{0} + Z_{1} + Z_{2} + Z_{3} = 1 \\ Z_{j} > 0 \quad j = 0, 1, 2, 3 \end{cases}$$

[E. LATERS ?

$$\begin{cases} X = \frac{1}{2} + \frac{1}{2} +$$

$$Y = Y$$

$$\begin{bmatrix}
0.08 & 0.184 & 0.368 & 0.368 \\
0.632 & 0.368 & 0 & 6 \\
0.264 & 0.368 & 0.368 & 0 \\
0.08 & 0.184 & 0.368 & 0.368
\end{bmatrix}$$

$$from(1) \quad 70.3 = \frac{46}{79} \quad 70.$$

$$from(2) \quad 70 = \frac{40}{79} \left(1 + \frac{46}{79} \right) 70^{\circ} = \frac{1750}{6241} \quad 70.$$

$$from(3) \quad 70 = \frac{23}{79} \quad 70 + \frac{46}{79} \quad 70.$$

$$= \left(\frac{23}{79} + \frac{46}{79} \times \frac{1750}{6241} + \frac{23}{79} \times \frac{46}{79} \right) \quad 70.$$

$$= 0.997 \quad 70.$$

$$frm(4)$$
 $z_0 = 0.28 \pm 7$
 $z_1 = 0.28 \pm 8$
 $z_2 = 0.26 \pm 2$
 $z_3 = 0.66 \pm 3$