显出轻争件概率仅分内与 双有关,即与当时的到和当前状态 能 如为了氏征

$$P(n) = \begin{pmatrix} 0 & \frac{1}{n} & \frac{1}{n} & \frac{1}{n} \\ 0 & \frac{1}{n} & \frac{1}{n} & \frac{1}{n} \\ 0 & \frac{1}{n} & \frac{1}{n} & \frac{1}{n} \end{pmatrix}$$

5.
$$P = \binom{0}{1} P^2 = \binom{0}{0} P^3 = \binom{0}{10} - \frac{1}{10} + \frac{1}{10} \frac{1}{10} + \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}$$

$$V=V = \begin{cases} V_1 = V_2 \\ V_2 = V_1 \\ V_1 + V_2 = 1 \end{cases}$$

$$P = \begin{cases} V_1 = V_2 \\ V_1 + V_2 = 1 \end{cases}$$

(1)
$$P^{(1)} = P^2 = \begin{bmatrix} \frac{1}{3} & \frac{2}{3} & \frac{2}{3} & \frac{2}{3} \\ \frac{1}{3} & \frac{1}{3} & \frac{2}{3} & \frac{2}{3} \\ \frac{1}{3} & \frac{1}{3} & \frac{2}{3} & \frac{2}{3} \\ \frac{1}{3} & \frac{2}{3} & \frac{2}{3} & \frac{2}{3} \end{bmatrix}$$

X(n)为第n年新产品销售收至、和始多不为又(o)二(专,支,支)。

第年
$$\pi(u) = \chi(v) P = (8 7 36 7 36)$$

国里到了了。则说了纸色为意为。没和限新的又=(元,元2,元3) 则

$$Z=ZP$$
 EP $\begin{cases} Z_1 = \alpha 4 Z_1 + \alpha 6 Z_2 + 0.6 Z_3 \\ Z_2 = 0.3 Z_1 + \alpha 3 Z_2 + 0.1 Z_3 \end{cases}$ $Z_3 = 0.3 Z_1 + 0.1 Z_2 + 0.3 Z_3$

解得 スニ(土,七,七)

17. 11 状色号向 [={0, 1, 2, ... a, att, "att), \$2般的了。

$$f_{ao} = \sum_{k=0}^{+\infty} f_{ab}^{(m)} = (\frac{1}{2})^{a} + (\frac{1}{2})^{a+2} + \dots + (\frac{1}{2})^{a+2k0} + \dots$$

$$= (\frac{1}{2})^{a} \left[\frac{1}{4} + \dots + (\frac{1}{2})^{a} + \dots \right]$$

$$= (\frac{1}{2})^{a} \frac{1}{4} = \frac{1}{5} (\frac{1}{2})^{a}.$$

(3)
$$P(X_4=3 \mid X_{(1)=1}, X_{(1)=1}) = P(X_{(1)=3} \mid X_{(1)=1}) = P(X_{(1)=3} \mid X_{(0)=1}) = P_{13}^{(2)} = \frac{1}{8}$$

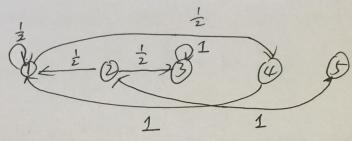
$$P(X_2=1 \mid X_3=2 \mid X_1=1) = P(X_3=2 \mid X_1=1, X_2=1) P(X_2=1 \mid X_1=1)$$

$$= P_{12}^{(1)} P_{11}^{(1)} = \frac{1}{4}.$$
2

(1)
$$f_{44}^{(1)}=0$$
, $f_{44}^{(1)}=0$ not to $f_{44}=0$, $f_{44}^{(1)}=0$, f_{44}



25.



① 图 f33=f33=1. 日在3为韩周期2年在即届历意.

fin =0 NN, 故于22=0,则2为非常色色. 同理5示为非常色色.

 $f_{11}^{(1)} = \frac{1}{2}$, $f_{11}^{(2)} = \frac{1}{2} \times 2 = \frac{1}{2}$, $f_{11}^{(N)} = 0$ 2 3.

 $f_{11}=1$ $d_{11}=1$. 友 (为) 適为き、 又 1.4至包女 4为高水色.

(1)由是通、状态的方解为

E={1,430 {33 U{2,5}}.

$$f_{a,0} = f_{a,a+1} f_{a+1,0} + f_{a,a+1} f_{a+1,0} \qquad (1)$$

$$i\& f_{a,0} = f_{a,1} f_{a+1,0} + f_{a,a+1} f_{a+1,0} \qquad (1)$$

$$f_{a} = \oint_{\Sigma} f_{a+1} + f_{a+1} f_{a+1} \qquad f_{a+1} f_{a+1} = f_{a+1} f_{a+1} \qquad f_{a+1} f_{a+1} = f_{a+1} f_{a+1} = f_{a+1} f_{a+1} \qquad f_{a+1} f_{a+1} = f_{a+1} f$$