$$23-51-Q3$$

$$Q(a) \text{ state.}? p?$$

$$S=\S 0, 1, 2 \}$$

$$Poo = P(B_{k} \ge 2) = 1-P\S B_{k} = [] - P\S B_{k} = 0]$$

$$= [-\frac{e^{\alpha I}(0.1)}{1!} - \frac{e^{-\alpha I_{0.1}}}{0!} = 1-[]e^{-\alpha I_{0.1}}$$

$$Poi = P(B_{k} = 1) = 0.1e^{-\alpha I_{0.1}}$$

$$Poi = P(B_{k} = 0) = e^{-\alpha I_{0.1}}$$

$$Poi = P(B_{k} \ge 2) = [-1.1]e^{-\alpha I_{0.1}}$$

$$Poi = P(B_{k} = 0) = e^{-\alpha I_{0.1}}$$

$$E(T_2) = \frac{1}{1 - P_{22}} = \frac{1}{1 - e^{-0.1}} = 10.5083$$

mean $E(T_i) = \frac{1}{3}(E(T_0) + E(T_1) + E(T_2)) = 4.2042$

遊松种概念

State 2 starges longen than Dand

No surprise

comment: $\lambda = 0.1$ is a small number

So the usage rate is low and

the replenishment policy reset the

number of spare bulks to 2 when ever

there is a shortfall

(c) independent of previous state

(d) P(UR4=1)= 21=0/e-0.1