

(2.3)

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$a=0.2$

$b=0.3$

$c=0.5$

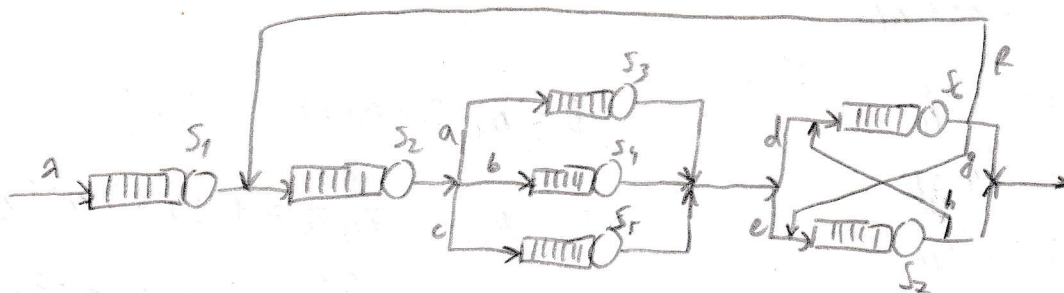
$d=0.3$

$e=0.7$

$f=0.5$

$g=0.9$

$h=0.3$



$\lambda_1 = \lambda$

$\lambda_2 = \lambda_1 + f\lambda_6$

$\lambda_3 = a\lambda_2$

$\lambda_4 = b\lambda_2$

$\lambda_5 = c\lambda_2$

$\lambda_6 = d\lambda_2 + h\lambda_7$

$\lambda_7 = e\lambda_2 + g\lambda_6$

$$\lambda_2 = \lambda + f\lambda_6$$

$$\lambda_2 = \lambda + f \frac{d+he}{1-hg} \lambda_2$$

$$\left(1 - f \frac{d+he}{1-hg}\right) \lambda_2 = \lambda$$

$$\left(\frac{1-hg-f(d+he)}{1-hg}\right) \lambda_2 = \lambda$$

$$\lambda_2 = \frac{1-hg}{1-hg-f(d+he)} \lambda$$

$$\lambda_3 = \frac{a(1-hg)}{1-hg-f(d+he)} \lambda$$

$$\lambda_4 = \frac{b(1-hg)}{1-hg-f(d+he)} \lambda$$

$$\lambda_5 = \frac{c(1-hg)}{1-hg-f(d+he)} \lambda$$

$\lambda_6 = d\lambda_2 + h\lambda_7$

$\lambda_6 = d\lambda_2 + h(e\lambda_2 + g\lambda_6)$

$\lambda_6 = d\lambda_2 + he\lambda_2 + hg\lambda_6$

$(1-hg)\lambda_6 = (d+he)\lambda_2$

$$\lambda_6 = \frac{d+he}{1-hg} \lambda_2$$

$$\lambda_6 = \frac{d+he}{1-hg} \frac{1-hg}{1-hg-f(d+he)} \lambda$$

$$\lambda_6 = \frac{d+he}{1-hg-f(d+he)} \lambda$$

$\lambda_7 = e\lambda_2 + g\lambda_6$

$$\lambda_7 = e \frac{1-hg}{1-hg-f(d+he)} \lambda + g \frac{d+he}{1-hg-f(d+he)} \lambda$$

$$\lambda_7 = \frac{e(1-hg) + g(d+he)}{1-hg-f(d+he)} \lambda$$

$N_1 = 1$

$$N_2 = \frac{1}{1-hg-f(d+he)} = \frac{134}{143} = 1.357$$

$$N_3 = \frac{a(1-hg)}{1-hg-f(d+he)} = \frac{134}{215} = 0.271$$

$$N_4 = \frac{b(1-hg)}{1-hg-f(d+he)} = \frac{291}{215} = 0.407$$

$$N_5 = \frac{c(1-hg)}{1-hg-f(d+he)} = \frac{97}{143} = 0.678$$

$$N_6 = \frac{d+he}{1-hg-f(d+he)} = \frac{102}{143} = 0.713$$

$$S_1 = 0.003 \text{ A/p}$$

$$S_2 = 0.001 \text{ A/p}$$

$$S_3 = 0.01 \text{ s/p}$$

$$S_4 = 0.04 \text{ A/p}$$

$$S_5 = 0.1 \text{ s/p}$$

$$S_6 = 0.13 \text{ A/p}$$

$$S_7 = 0.15 \text{ A/p}$$

$$D_i = N_i S_i$$

$$D_1 = N_1 S_1 = 0.003 \text{ A}$$

$$D_2 = N_2 S_2 = \frac{97}{71500} = 1.357 \cdot 10^{-3} \text{ A}$$

$$D_3 = N_3 S_3 = \frac{97}{35750} = 2.713 \cdot 10^{-3} \text{ A}$$

$$D_4 = N_4 S_4 = \frac{291}{17875} = 0.0163 \text{ A}$$

$$D_5 = N_5 S_5 = \frac{97}{1430} = 0.0678 \text{ A}$$

$$D_6 = N_6 S_6 = \frac{51}{550} = 0.0927 \text{ A}$$

$$D_7 = N_7 S_7 = \frac{219}{1430} = 0.1531 \text{ A}$$

$$N_1 T_1 = \frac{D_1}{1 - \alpha D_1} = \frac{0.003}{1 - \frac{0.003 \cdot 97}{97}}$$

$$N_2 T_2 = \frac{D_2}{1 - \alpha D_2} = \frac{\frac{97}{71500}}{1 - \frac{97}{71500} \cdot 2} = \frac{97}{71500 - 97 \cdot 2}$$

$$N_3 T_3 = \frac{D_3}{1 - \alpha D_3} = \frac{\frac{97}{35750}}{1 - \frac{97}{35750} \cdot 2} = \frac{97}{35750 - 97 \cdot 2}$$

$$N_4 T_4 = \frac{D_4}{1 - \alpha D_4} = \frac{\frac{291}{17875}}{1 - \frac{291}{17875} \cdot 2} = \frac{291}{17875 - 291 \cdot 2}$$

$$N_5 T_5 = \frac{D_5}{1 - \alpha D_5} = \frac{\frac{97}{1430}}{1 - \frac{97}{1430} \cdot 2} = \frac{97}{1430 - 97 \cdot 2}$$

$$N_6 T_6 = \frac{D_6}{1 - \alpha D_6} = \frac{\frac{51}{550}}{1 - \frac{51}{550} \cdot 2} = \frac{51}{550 - 51 \cdot 2}$$

$$N_7 T_7 = \frac{D_7}{1 - \alpha D_7} = \frac{\frac{219}{1430}}{1 - \frac{219}{1430} \cdot 2} = \frac{219}{1430 - 219 \cdot 2}$$

$$T = \sum_{i=1}^7 T_i N_i$$

$$T(1) = 0.379 \text{ A}$$

$$T(2) = 0.437 \text{ A}$$

$$T(4) = 0.66 \text{ A}$$

$$T(8) = -0.147 \text{ A}$$

$$T(6) = 2.237 \text{ A}$$

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