

A.s. equations

① $x_0 = (1+\alpha)x_1 + x_2$

① $x_2 = x_3 + x_7 + x_8$

② $x_3 = x_4 + x_6$

③ $x_7 = \frac{5}{6}x_6$

④ $x_4 + x_8 = x_5$

* ⑤ $x_3 = 4x_8$

⑥ $x_5 = \frac{3}{4}x_9 + x_{10}$

⑦ $x_{10} = \frac{3}{2}x_{11} + \frac{3}{2}x_{12}$

⑧ $x_{11} + x_{12} = x_{13}$

⑨ $\beta x_1 + \frac{1}{6}x_6 + \frac{1}{3}x_5 - \frac{1}{2}x_9 + \frac{1}{2}x_{12} = 0$

⑩ $-8x_1 + (\frac{1}{4} + \frac{1}{6})x_9 + \frac{1}{3}x_{10} + \frac{1}{2}x_{13} - \frac{1}{3}x_0 - \frac{1}{6}x_4 + \frac{1}{3}x_5 = 0$

⑪ $x_1 = 0$

⑫ $x_9 = x_{2a}$

⑬ $\frac{1}{2}x_{11} = x_{3a}$

⑭ $x_{13} = x_{4a}$

⑮ $x_0 = x_2 = \frac{1}{48\alpha} x_{2a}$

	x_0	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	x_9	x_{10}	x_{11}	x_{12}	x_{13}
①	-1	(1+α)	1	0	0	0	0	0	0	0	0	0	0	0
①	0	0	-1	1	0	0	0	1	1	0	0	0	0	0
②	0	0	0	-1	1	0	1	0	0	0	0	0	0	0
③	0	0	0	0	0	0	$\frac{5}{6}$	-1	0	0	0	0	0	0
④	0	0	0	0	-1	1	0	0	-1	0	0	0	0	0
⑤	0	0	0	1	0	0	0	0	-4	0	0	0	0	0
⑥	0	0	0	0	0	-1	0	0	0	$\frac{3}{4}$	1	0	0	0
⑦	0	0	0	0	0	0	0	0	0	-1	$\frac{3}{2}$	$\frac{3}{2}$	0	0
⑧	0	0	0	0	0	0	0	0	0	0	-1	-1	1	0
⑨	0	β	0	0	0	$\frac{1}{3}$	$\frac{1}{3}$	0	0	$-\frac{1}{2}$	0	0	$\frac{1}{2}$	0
⑩	0	-8	0	0	0	0	0	0	0	$(\frac{1}{4} + \frac{1}{6})$	$\frac{1}{3}$	0	0	$\frac{1}{2}$

$$D(x_i^* - x_i) + x_i \alpha x = 0$$

$$x_x = D$$

$$-D x_{2a} + x_{2a} \alpha x = 0$$

$$-D x_{3a} + x_{3a} \alpha x = 0$$

$$-D x_{4a} + x_{4a} \alpha x = 0$$