

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	0	globally	3	3		$x1(0), x2(0), x3(0), k12, k21, k23, k32$			$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3 + u(t),$ $y=x3$
3	1	1	0	globally	3	2		$x1(0), x2(0), x3(0), k12, k21, k23, k32$			$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3 + u(t),$ $y=x2$
3	1	1	0	locally	2	3		$x3(0), k21, k32$	$x1(0), x2(0), k12, k23$		$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2 + u(t),$ $dx3/dt = k32*x2 - k23*x3,$ $y=x3$
3	1	1	0	locally	2	2		$x2(0)$	$x1(0), x3(0), k12, k21, k23, k32$		$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2 + u(t),$ $dx3/dt = k32*x2 - k23*x3,$ $y=x3$
3	1	1	0	no	3	1		$x1(0)$		$x2(0), x3(0), k12, k21, k23, k32$	$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3 + u(t),$ $y=x1$
3	1	1	0	locally	2	1		$k12, k23, x1(0)$	$k21, k32, x2(0), x3(0)$		$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2 + u(t),$ $dx3/dt = k32*x2 - k23*x3,$ $y=x1$
3	1	1	0	no	1	3		$x3(0)$		$x1(0), x2(0), k12, k21, k23, k32$	$dx1/dt = -k21*x1 + k12*x2 + u(t),$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3,$ $y=x3$
3	1	1	0	globally	1	2		$x1(0), x2(0), x3(0), k12, k21, k23, k32$			$dx1/dt = -k21*x1 + k12*x2 + u(t),$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3,$ $y=x2$
3	1	1	0	globally	1	1		$x1(0), x2(0), x3(0), k12, k21, k23, k32$			$dx1/dt = -k21*x1 + k12*x2 + u(t),$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3,$ $y=x1$
3	1	1	1	globally	3	3	3	$k03, k12, k21, k23, k32, x1(0), x2(0), x3(0)$			$dx1/dt = -k21*x1 + k12*x2,$ $dx2/dt = k21*x1 + k23*x3 - k12*x2 - k32*x2,$ $dx3/dt = k32*x2 - k23*x3 + u(t) - k03*x3,$ $y=x3$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	1	globally	3	3	2	$k_{02}, k_{12}, k_{21}, k_{23}, k_{32}, x_1(0), x_2(0), x_3(0)$			$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2 - k_{02}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 \\ &\quad + u(t), \\ y &= x_3 \end{aligned}$
3	1	1	1	locally	3	2	3	$k_{21}, k_{23}, x_2(0)$	$k_{03}, k_{12}, k_{32}, x_1(0), x_3(0)$		$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 \\ &\quad + u(t) - k_{03}x_3, \\ y &= x_2 \end{aligned}$
3	1	1	1	globally	3	2	2	$k_{02}, k_{12}, k_{21}, k_{23}, k_{32}, x_1(0), x_2(0), x_3(0)$			$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2 - k_{02}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 \\ &\quad + u(t), \\ y &= x_2 \end{aligned}$
3	1	1	1	locally	2	3	3	$k_{03}, k_{21}, k_{32}, x_3(0)$	$k_{12}, k_{23}, x_1(0), x_2(0)$		$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2 + u(t), \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 \\ &\quad -k_{03}x_3, \\ y &= x_3 \end{aligned}$
3	1	1	1	locally	2	3	2	$k_{21}, k_{32}, x_3(0)$	$k_{02}, k_{12}, k_{23}, x_1(0), x_2(0)$		$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2 + u(t) \\ &\quad -k_{02}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3, \\ y &= x_3 \end{aligned}$
3	1	1	1	locally	2	2	3	$x_2(0)$	$k_{03}, k_{12}, k_{21}, k_{23}, k_{32}, x_1(0), x_3(0)$		$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2 + u(t), \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 \\ &\quad -k_{03}x_3, \\ y &= x_2 \end{aligned}$
3	1	1	1	locally	2	2	2	$k_{02}, x_2(0)$	$k_{12}, k_{21}, k_{23}, k_{32}, x_1(0), x_3(0)$		$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2 + u(t) \\ &\quad -k_{02}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3, \\ y &= x_2 \end{aligned}$
3	1	1	1	globally	3	3	1	$k_{01}, k_{12}, k_{21}, k_{23}, k_{32}, x_1(0), x_2(0), x_3(0)$			$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 \\ &\quad -k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 \\ &\quad -k_{12}x_2 - k_{32}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 \\ &\quad + u(t), \\ y &= x_3 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	1	globally	3	2	1	k01, k12, k21, k23, k32, x1(0), x2(0), x3(0)			$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad -k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2, \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad +u(t), \\ y &= x2 \end{aligned}$
3	1	1	1	locally	2	3	1	k32, x3(0)	k01, k12, k21, k23, x1(0), x2(0)		$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad -k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 +u(t), \\ dx3/dt &= k32*x2 -k23*x3, \\ y &= x3 \end{aligned}$
3	1	1	1	no	3	1	3	x1(0)		k03, k12, k21, k23, k32, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2, \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad +u(t) -k03*x3, \\ y &= x1 \end{aligned}$
3	1	1	1	no	3	1	2	x1(0)		k02, k12, k21, k23, k32, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad +u(t), \\ y &= x1 \end{aligned}$
3	1	1	1	locally	2	1	3	k12, x1(0)	k03, k21, k23, k32, x2(0), x3(0)		$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 +u(t), \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad -k03*x3, \\ y &= x1 \end{aligned}$
3	1	1	1	locally	2	1	2	k12, k23, x1(0)	k02, k21, k32, x2(0), x3(0)		$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 +u(t) \\ &\quad -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3, \\ y &= x1 \end{aligned}$
3	1	1	1	no	3	1	1	k01, x1(0)		k12, k21, k23, k32, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad -k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2, \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad +u(t), \\ y &= x1 \end{aligned}$
3	1	1	1	locally	2	1	1	k01, k12, k23, x1(0)	k21, k32, x2(0), x3(0)		$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad -k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 +u(t), \\ dx3/dt &= k32*x2 -k23*x3, \\ y &= x1 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	1	no	1	3	3	k03, x3(0)		k12, k21, k23, k32, x1(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3 - k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	1	no	1	3	2	x3(0)		k02, k12, k21, k23, k32, x1(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x3 \end{aligned}$
3	1	1	1	globally	1	2	3	k03, k12, k21, k23, k32, x1(0), x2(0), x3(0)			$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3 - k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	1	globally	1	2	2	k02, k12, k21, k23, k32, x1(0), x2(0), x3(0)			$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x2 \end{aligned}$
3	1	1	1	no	1	3	1	x3(0)		k01, k12, k21, k23, k32, x1(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x3 \end{aligned}$
3	1	1	1	locally	1	2	1	k21, k23, x2(0)	k01, k12, k32, x1(0), x3(0)		$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x2 \end{aligned}$
3	1	1	1	globally	1	1	3	k03, k12, k21, k23, k32, x1(0), x2(0), x3(0)			$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3 - k03*x3, \\ y &= x1 \end{aligned}$
3	1	1	1	globally	1	1	2	k02, k12, k21, k23, k32, x1(0), x2(0), x3(0)			$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x1 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	1	globally	1	1	1	k01, k12, k21, k23, k32, x1(0), x2(0), x3(0)			$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x1 \end{aligned}$
3	1	1	2	no	2	2	1,2	x2(0)	k23, k32, x3(0)	k01, k02, k12, k21, x1(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 + u(t) - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	3	1	1,2	x1(0)		k01, k02, k12, k21, k23, k32, x3(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 + u(t), \\ y &= x1 \end{aligned}$
3	1	1	2	no	1	3	1,2	x3(0)		k01, k02, k12, k21, k23, k32, x1(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x3 \end{aligned}$
3	1	1	2	no	1	2	1,2	k21, k23, x2(0)		k01, k02, k12, k32, x1(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	1	1	1,2	k23, k32, x1(0)		k01, k02, k12, k21, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3, \\ y &= x1 \end{aligned}$
3	1	1	2	no	3	3	1,2	x2(0), x3(0), k23, k32		x1(0), k01, k02, k12, k21	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 + u(t), \\ y &= x3 \end{aligned}$
3	1	1	2	no	3	2	1,3	x2(0), k23		x1(0), x3(0), k01, k03, k12, k21, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2, \\ dx3/dt &= k32*x2 - k23*x3 + u(t) - k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	3	2	1,2	x2(0), x3(0), k23, k32		x1(0), k01, k02, k12, k21	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 + u(t), \\ y &= x2 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	2	no	2	3	1,2	$x_3(0), k_{32}$	$x_2(0), k_{23}$	$x_1(0), k_{01}, k_{02}, k_{12}, k_{21}$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2 + u(t) - k_{02}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3, \\ y &= x_3 \end{aligned}$
3	1	1	2	no	2	1	1,2	$k_{12}, k_{23}, x_1(0)$		$k_{01}, k_{02}, k_{21}, k_{32}, x_2(0), x_3(0)$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2 + u(t) - k_{02}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3, \\ y &= x_1 \end{aligned}$
3	1	1	2	no	3	3	1,3	$x_3(0)$		$x_1(0), x_2(0), k_{01}, k_{03}, k_{12}, k_{21}, k_{23}, k_{32}$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 + u(t) - k_{03}x_3, \\ y &= x_3 \end{aligned}$
3	1	1	2	no	2	2	1,3	$x_2(0)$		$k_{01}, k_{03}, k_{12}, k_{21}, k_{23}, x_1(0), x_3(0)$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2 + u(t), \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 - k_{03}x_3, \\ y &= x_2 \end{aligned}$
3	1	1	2	no	1	1	1,3	$x_1(0)$		$k_{01}, k_{03}, k_{12}, k_{21}, x_2(0), x_3(0)$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 + u(t) - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 - k_{03}x_3, \\ y &= x_1 \end{aligned}$
3	1	1	2	no	3	1	1,3	$x_1(0)$		$k_{01}, k_{03}, k_{12}, k_{21}, k_{23}, k_{32}, x_2(0), x_3(0)$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 + u(t) - k_{03}x_3, \\ y &= x_1 \end{aligned}$
3	1	1	2	no	1	3	1,3	$x_3(0)$		$k_{01}, k_{03}, k_{12}, k_{21}, k_{23}, k_{32}, x_1(0), x_2(0)$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 + u(t) - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2, \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 - k_{03}x_3, \\ y &= x_3 \end{aligned}$
3	1	1	2	no	2	1	1,3	$k_{12}, x_1(0)$		$k_{01}, k_{03}, k_{21}, k_{23}, k_{32}, x_2(0), x_3(0)$	$\begin{aligned} dx_1/dt &= -k_{21}x_1 + k_{12}x_2 - k_{01}x_1, \\ dx_2/dt &= k_{21}x_1 + k_{23}x_3 - k_{12}x_2 - k_{32}x_2 + u(t), \\ dx_3/dt &= k_{32}x_2 - k_{23}x_3 - k_{03}x_3, \\ y &= x_1 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	2	no	1	2	1,3	k21, x2(0)		k01, k03, k12, k23, k32, x1(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t) \\ &\quad -k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2, \\ dx3/dt &= k32*x2 -k23*x3 -k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	2	3	1,3	k32, x3(0)		k01, k03, k12, k21, k23, x1(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad -k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 + u(t), \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad -k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	2	no	3	1	2,3	x1(0)		k02, k03, k12, k21, k23, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 + u(t) \\ &\quad -k03*x3, \\ y &= x1 \end{aligned}$
3	1	1	2	no	1	3	2,3	x3(0)		k02, k03, k12, k21, k23, k32, x1(0), x2(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad -k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	2	no	3	3	2,3	x3(0), k12, k21		x1(0), x2(0), k02, k03, k23, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 + u(t) \\ &\quad -k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	2	no	3	2	2,3	x2(0), k21, k23		x1(0), x3(0), k02, k03, k12, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 + u(t) \\ &\quad -k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	2	3	2,3	x3(0), k21, k32		x1(0), x2(0), k02, k03, k12, k23	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 + u(t) -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 \\ &\quad -k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	2	no	2	2	2,3	x2(0)	k12, k21, x1(0)	x3(0), k02, k03, k23, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 + u(t) -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 -k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	2	1	2,3	x1(0), k12	x2(0), k21	x3(0), k02, k03, k23, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad -k12*x2 -k32*x2 + u(t) -k02*x2, \\ dx3/dt &= k32*x2 -k23*x3 -k03*x3, \\ y &= x1 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	2	no	1	2	2,3	k12, k21, x1(0), x2(0)		k02, k03, k23, k32, x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 - k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	2	no	1	1	2,3	k12, k21, x1(0), x2(0)		k02, k03, k23, k32, x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 + u(t), \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 - k03*x3, \\ y &= x1 \end{aligned}$
3	1	1	3	no	3	3	1,2,3	x3(0)		x1(0), x2(0), k01, k02, k03, k12, k21, k23, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 + u(t) \\ &\quad - k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	3	no	3	2	1,2,3	x2(0), k23		x1(0), x2(0), k01, k02, k03, k12, k21, k32	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 + u(t) \\ &\quad - k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	3	no	2	3	1,2,3	x3(0), k32		x1(0), x2(0), k01, k02, k03, k12, k21, k23	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 + u(t) - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 \\ &\quad - k03*x3, \\ y &= x3 \end{aligned}$
3	1	1	3	no	2	2	1,2,3	x2(0)		k01, k02, k03, k12, k21, k23, k32, x1(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 - k02*x2 + u(t), \\ dx3/dt &= k32*x2 - k23*x3 \\ &\quad - k03*x3, \\ y &= x2 \end{aligned}$
3	1	1	3	no	3	2	1,2,3	x1(0)		k01, k02, k03, k12, k21, k23, k32, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 - k03*x3 \\ &\quad + u(t), \\ y &= x1 \end{aligned}$
3	1	1	3	no	2	1	1,2,3	k12, x1(0)		k01, k02, k03, k21, k23, k32, x2(0), x3(0)	$\begin{aligned} dx1/dt &= -k21*x1 + k12*x2 \\ &\quad - k01*x1, \\ dx2/dt &= k21*x1 + k23*x3 \\ &\quad - k12*x2 - k32*x2 + u(t) - k02*x2, \\ dx3/dt &= k32*x2 - k23*x3 \\ &\quad - k03*x3, \\ y &= x1 \end{aligned}$

# vertices	# inputs	# outputs	# leaks	identifiable?	Where are the inputs?	Where are the outputs?	Where are the leaks?	Globally Identifiable Parameters	Locally Identifiable Parameters	Non-Identifiable Parameters	SIAN Code
3	1	1	3	no	1	3	1,2,3		$x_3(0)$	$k_{01}, k_{02}, k_{03}, k_{12}, k_{23}, k_{32}, x_1(0), x_2(0)$	$dx_1/dt = -k_{21}x_1 + k_{12}x_2 + u(t)$ $-k_{01}x_1,$ $dx_2/dt = k_{21}x_1 + k_{23}x_3$ $-k_{12}x_2 - k_{32}x_2 - k_{02}x_2,$ $dx_3/dt = k_{32}x_2 - k_{23}x_3$ $-k_{03}x_3,$ $y = x_3$
3	1	1	3	no	1	2	1,2,3	$k_{21}, x_2(0)$		$k_{01}, k_{02}, k_{03}, k_{12}, k_{23}, k_{32}, x_1(0), x_3(0)$	$dx_1/dt = -k_{21}x_1 + k_{12}x_2 + u(t)$ $-k_{01}x_1,$ $dx_2/dt = k_{21}x_1 + k_{23}x_3$ $-k_{12}x_2 - k_{32}x_2 - k_{02}x_2,$ $dx_3/dt = k_{32}x_2 - k_{23}x_3$ $-k_{03}x_3,$ $y = x_2$
3	1	1	3	no	1	1	1,2,3	$x_1(0)$		$k_{01}, k_{02}, k_{03}, k_{12}, k_{21}, k_{23}, k_{32}, x_2(0), x_3(0)$	$dx_1/dt = -k_{21}x_1 + k_{12}x_2 + u(t)$ $-k_{01}x_1,$ $dx_2/dt = k_{21}x_1 + k_{23}x_3$ $-k_{12}x_2 - k_{32}x_2 - k_{02}x_2,$ $dx_3/dt = k_{32}x_2 - k_{23}x_3$ $-k_{03}x_3,$ $y = x_1$