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Chaos, Solitons and Fractals

Nonlinear Science, and Nonequilibrium and Complex Phenomena

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Letter



Erratum to: “Simple chaotic flows with a line equilibrium” [Chaos, Solitons and Fractals 57 (2013) 79–84]

Thanks to Uğur Erkin Kocamaz, Yılmaz Uyaroğlu, and Zahra Sadat Hosseini for noticing some typographical errors

in Table 1 (p. 80) of our paper [1]. We would like to apologize to the readers for any confusion caused. This is the correct version of Table 1:

Table 1
Nine simple chaotic flows with line equilibrium.

Case	Equations	(a,b)	Equilibrium	Eigenvalues	LEs	D_{KY}	(x_0, y_0, z_0)
LE ₁	$\dot{x} = y$	$a = 15$	0	$\frac{z \pm \sqrt{z^2 - 4}}{2}$	0.0717	2.1371	0
	$\dot{y} = -x + yz$	$b = 1$	0	0	0		0.5
	$\dot{z} = -x - axy - bxz$		z		-0.5232		0.5
LE ₂	$\dot{x} = y$	$a = 17$	0	$\frac{z \pm \sqrt{z^2 - 4}}{2}$	0.0564	2.1927	0
	$\dot{y} = -x + yz$	$b = 1$	0	0	0		0.4
	$\dot{z} = -y - axy - bxz$		z		-0.2927		0
LE ₃	$\dot{x} = y$	$a = 18$	0	$\frac{z \pm \sqrt{z^2 - 4}}{2}$	0.0556	2.1714	0
	$\dot{y} = -x + yz$	$b = 1$	0	0	0		-0.4
	$\dot{z} = x^2 - axy - bxz$		z		-0.3245		0.5
LE ₄	$\dot{x} = y$	$a = 4$	0	$\frac{z \pm \sqrt{z^2 - 4}}{2}$	0.0539	2.1712	0.2
	$\dot{y} = -x + yz$	$b = 0.6$	0	0	0		0.7
	$\dot{z} = -axy - bxz - yz$		z		-0.3147		0
LE ₅	$\dot{x} = y$	$a = 1.5$	0	$\frac{z \pm \sqrt{z^2 - 4a}}{2}$	0.1386	2.1007	0.7
	$\dot{y} = -ax + yz$	$b = 5$	0	0	0		1
	$\dot{z} = -x^2 + y^2 - bxy$		z		-1.3764		0
LE ₆	$\dot{x} = y$	$a = 0.04$	0	$\frac{z \pm \sqrt{z^2 - 4}}{2}$	0.0543	2.0860	1
	$\dot{y} = -x + yz$	$b = 0.1$	0	0	0		2
	$\dot{z} = ay^2 - xy - bxz$		z		-0.6314		0
LE ₇	$\dot{x} = z$	$a = 1.85$	0	$\frac{-0.3y \pm \sqrt{0.09y^2 - 4y}}{2}$	0.1144	2.0140	5.1
	$\dot{y} = x + yz$	$b = 0.3$	y	0	0		7
	$\dot{z} = ax^2 - xy - byz$		0		-1.0270		0
LE ₈	$\dot{x} = z$	$a = 3$	0	$\pm \sqrt{y}$	0.0521	2.0647	0
	$\dot{y} = x - yz$	$b = 1$	y	0	0		-0.3
	$\dot{z} = -ax^2 + xy + bxz$		0		-0.8053		-1
LE ₉	$\dot{x} = z$	$a = 1.62$	x	$\frac{-0.62 \pm \sqrt{6.8644 - 4x^2}}{2}$	0.0642	2.0939	0
	$\dot{y} = -ay - xz$	$b = 0.2$	0	0	0		1
	$\dot{z} = z - bz^2 + xy$		0		-0.6842		0.8

Reference

- [1] Jafari S, Sprott J. Simple chaotic flows with a line equilibrium. *Chaos, Solitons & Fractals* 2013;57:79–84.

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