Model Documentation of the:

Roessler Attractor - Equation 1 of 1979

1 Nomenclature

1.1 Nomenclature for Model Equations

$a,\ b,\ c$ constants

2 Model Equations

$$\dot{x} = -y - z \tag{1a}$$

$$\dot{y} = x + ay \tag{1b}$$

$$\dot{z} = bx - cz + xz \tag{1c}$$

Inputs:
Parameters: $a,\ b,\ c$
Outputs:

2.1 Exemplary parameter values

Symbol	Value
a	0.38
b	0.3
c	4.84

References

[1] Roessler, O. E.: *Continuous chaos - four prototype equations*, Ann . NY Acad. Sci. 316, p. 381, 1979

[2] Gaspard, P.: *Roessler Systems, Encyclopedia of Nonlinear Science*, pp. 808-811, New York, 2005