Introduction to LaTeX

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Abstract

The abstract text goes here.

1 Introduction

$$\dot{x} = rx\left(1 - \frac{x}{K}\right) \tag{1}$$

$$x(t) = \frac{KPe^{rt}}{K + P(e^{rt} - 1)}, \tag{2}$$

$$\dot{C} = rC\left(1 - \frac{C}{K}\right) \tag{3}$$

$$C(t) = \frac{KC_0e^{rt}}{K + C_0(e^{rt} - 1)}, \tag{4}$$

$$Ci - Cells \tag{5a}$$
$$Ni - Nutrients \tag{5b}$$

$$C + N \xrightarrow{b_i} 2C, \tag{6a}$$
$$rate = b_i[C][N] \tag{6b}$$

$$C_i + N_i \xrightarrow{b_i[C_i][N_i]} 2C_i \tag{7}$$

$$C + N \xrightarrow{b[C][N]} 2C \tag{8}$$

$$-\ \delta_i \tag{9}$$

$$N + C \xrightarrow{b_i} 2C, \tag{10a}$$
$$\frac{dC}{dt} = b_i[N][C] \tag{10b}$$

$$r_i = b_i(N_0 + C_0) \tag{11a}$$
$$K_i = (N_0 + C_0) \tag{11b}$$

$$r = b(N_0 + C_0) \tag{12a}$$
$$K = (N_0 + C_0) \tag{12b}$$

$$\frac{dC_i}{dt} = b_i N_i C_i, \tag{13a}$$
$$\frac{dN_i}{dt} = - b_i N_i C_i \tag{13b}$$
$$- k \sum_{j \epsilon \delta_i} (N_i - N_j) \tag{13c}$$
$$\tag{13d}$$

$$\frac{dC_i}{dt} = b_i N_i C_i, \tag{14a}$$
$$\frac{dN_i}{dt} = - b_i N_i C_i - k \sum_{j \epsilon \delta_i} (N_i - N_j) \tag{14b}$$
$$\tag{14c}$$