



Brian Fabien

Analytical System Dynamics

Modeling and Simulation



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clear all;
close all;
close os;
close ps;
Capac = 1000000000; %1000 nF
R1 = 1000000; %1 M
R2 = 1000000; %1 M
In = 1000000; %1 A
Capac = 1000000000; %1000 nF
R1 = 1000000; %1 M
R2 = 1000000; %1 M
In = 1000000; %1 A
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```
syms t;
syms y;
syms dy;
syms d2y;
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$$\begin{aligned} \frac{dy}{dt} &= \frac{1}{RC} (1 - y) \\ \frac{d^2y}{dt^2} &= \frac{1}{RC} \left(\frac{dy}{dt} \right) \end{aligned}$$

$$M = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } T = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } A = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end;}$$

$$y = \frac{1}{RC} \left(\frac{dy}{dt} \right) \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } T = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } A = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end;}$$

$$y = \frac{1}{RC} \left(\frac{dy}{dt} \right) \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } T = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } A = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end;}$$

$$\text{if } t < 0 \quad \text{else } 0 \quad \text{end; } T = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end; } A = \frac{1}{RC} \quad \text{if } t < 0 \quad \text{else } 0 \quad \text{end;}$$



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