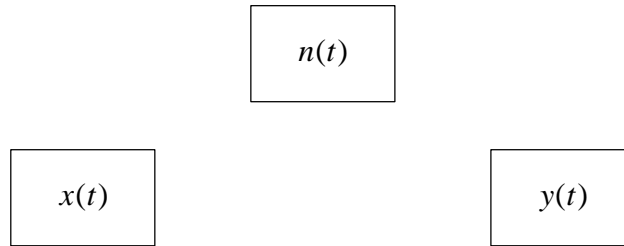


Introduction

A model



The number of potential customers at time t is $n(t)$

$$\frac{dn(t)}{dt} = -an(t) + by(t) + cx(t) - \beta nx(t) \quad (1)$$

and $x(t)$ is the number of customers who actually hate the coffee machine,

$$\frac{dx(t)}{dt} = a(1-p)n(t) - cx(t) + \beta nx(t) \quad (2)$$

whereas $y(t)$ is the people who like the coffee machine

$$\frac{dy(t)}{dt} = apn(t) - by(t) \quad (3)$$