

Homework Assignment

EXERCISES

24.1 For each of the following models, identify all classifications that apply to it:

a. $y(t) = t + 0.2$

b. $y(t) = t^2$

c. $y(t + 1) = y(t) + \Delta$, Δ is not an integer.

d. $n(t + 1) = 2n(t) + 3$

e. $y(t) = \sin(\omega t)$

f. $\bar{y}(t + 1) = \bar{y}(t) + \Delta$

24.2 Which type of simulation would you use for the following problems:

a. To model destination address reference patterns in a network traffic given that the pattern depends upon a large number of factors.

b. To model scheduling in a multiprocessor system given that the request arrivals have a known distribution.

c. To determine the value of π .