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| Lecturer: | 25-01-2021 | Approved by: | 25-01-2021 |
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|--|-------------------|-----------------------|------------------------|--|------------|-----------|
|  UNIVERSITY OF TECHNOLOGY FACULTY OF CSE | FINAL EXAM | | Semester/Academic year | | 1 | 2020-2021 |
| | | | Date | | 28-01-2021 | |
| | Course title | Mathematical Modeling | | | | |
| | Course ID | CO2011 | | | | |
| | Duration | 80 mins | Question sheet code | | 2811 | |
| Notes: <ul style="list-style-type: none">- One single sheet (both sides) of A4 paper of hand-written notes is allowed.- Stu. ID and Stu. Fullname fields at the bottom of the question sheet must be filled in.- Submit the answer sheet together with the question sheet when finishing the test.- Mark the correct answers in the answer sheet.- The test consists of 25 multi-choice questions, each of which has the score of 0.4. | | | | | | |

In this final examination, for all questions concerning dynamical systems, we consider the following initial-value problem

$$\begin{cases} \dot{x}(t) = f(x), & t > t_0 \geq 0, \\ x(t_0) = x_0, \end{cases} \quad (1)$$

where x is a real-value function dependent on t and f is a real-value function dependent on x .

Use the following information to answer **the questions 1–5**. The following initial-value problem is a model of vapour pressure of water in the air of a greenhouse

$$\begin{cases} \dot{x}(t) = \frac{U\phi}{Ah} + \frac{k(C - x)}{h}, & t > t_0 \geq 0, \\ x(t_0) = x_0. \end{cases} \quad (2)$$

- $x(t)$ (pa) represents the vapour pressure in the greenhouse air at time t , $x_0 = x(t_0)$ is a constant, and \dot{x} , the time derivative of x , is the rate change of vapour pressure.
- The constants $C = 2986$ (pa), $h = 1.94$ (kg·m·J⁻¹), $A = 100$ (m²), $U = 85\%$ (dimensionless), and $\phi = 1.39$ (kg/s) are respectively the saturated vapour pressure at the canopy temperature, the capacity of the greenhouse air to store water vapour, the area of the greenhouse floor, the control value of the fogging system, and the capacity of the fogging system.
- k (kg·m⁻²·pa⁻¹·s⁻¹), the vapour exchange coefficient dependent on x (pa), satisfies

$$k = \frac{1}{8x^2 - 47713x + 79259056}. \quad (3)$$

Noting that every coefficient on the right-hand side of (3) has its own unit, which is omitted here for simplicity.

- For pressure, 1 (bar) = 100000 (pa).

Question 1. (L.O.2.1)

Which of the following units is equivalent to pa?

- (A) J/m². (B) kg/J. (C) J/m. (D) bar/s.

Question 2. (L.O.2.1)

At a given time, what is the value of vapour exchange coefficient k (kg·m⁻²·bar⁻¹·s⁻¹) if the vapour pressure of water in the greenhouse air is 0.01 (bar)?

- (A) 0.00516 (B) 0.00253 (C) 0.00158 (D) 0.00216

Mathematics Nmemorandum August 201

S.H. Fuller



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