

MOM3602 Theory of Machines III Mock Exam 2015 (100 Marks in 3 Hours)

Preparation/Practice Problems: First try to solve without using your textbooks/notes and then go to your textbooks/notes if stuck

QUESTION 1 [20 Marks]

Consider the mass-spring-damper system as illustrated below in Figure 1.



Figure 1.

The system is known to be under-damped with $\zeta < 1$ so that the displacement of the system is of the form

$$x(t) = X e^{-\zeta \omega_n t} \cos(\sqrt{1 - \zeta^2} \omega_n t - \phi)$$

where X is a constant amplitude, ζ is the damping factor, ω_n is the angular natural frequency, t is the time, and ϕ is a constant phase lag. Experimental measurements are conducted on the system as illustrated in Figure 2.

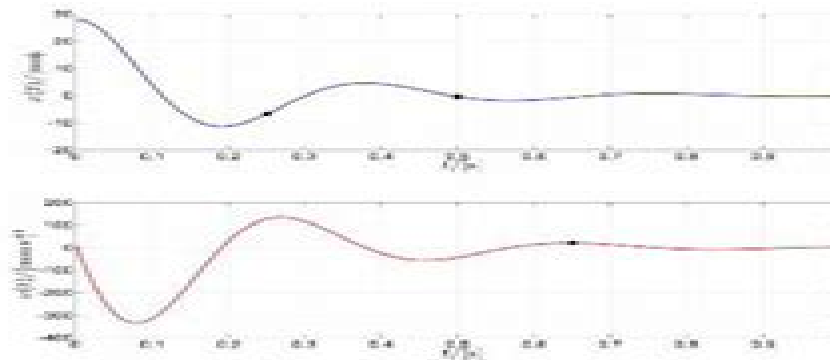


Figure 2.

The displacement at time $t = 0.25$ s is measured as $x(0.25) = -6.7716 \times 10^{-3}$ m and the displacement at time $t = 0.50$ s is measured as $x(0.50) = -0.3834 \times 10^{-3}$ m.

Determine the following:

- Using the specified experimental data determine the expression for the displacement by finding the values of the parameters X and ϕ and write down the expression $x(t)$
- Use the determined expression for the displacement to calculate the velocity of the system at time $t = 0.65$ s

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