



Unit 2 - Week 1

Course outline

How to access the portal

Week 1

- Lecture 1 Introduction to Dynamic Stability
- Lecture 2 Spring-Mass-Damper System : Underdamped
- Lecture 3 Spring-Mass-Damper System: Over and Critically damped
- Lecture 4 Laplace Transform
- Lecture 5 Pitch Dynamics: 1 D
- Lecture 6 Numericals: Week-1
- Quiz : Assignment-1
- Solutions for Assignment 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Assignment-1

The due date for submitting this assignment has passed. **Due on 2016-08-02, 23:59 IST**
As per our records you have not submitted this assignment.

1) 2 points

What will be the value of Y(s)

-
-
-
-

No, the answer is incorrect.
Score: 0

Accepted Answers:

2) 2 points

What will be the value of y(t)

-
-
-
-

No, the answer is incorrect.
Score: 0

Accepted Answers:

3) For pitch only motion the equation of motion can be given as 2 points

-
-
-
-

No, the answer is incorrect.
Score: 0

Accepted Answers:

4) For a given aircraft 2 points

Undamped natural frequency of pitching motion will be approximately

- 0.7 rad/sec
- 0.9 rad/sec
- 1.4 rad/sec
- 1.4 rad/sec

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.7 rad/sec

5) For a given aircraft

Damping ratio will be

- 0.18
- 0.22
- 0.34
- 0.61

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.34



2 points

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