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NPTEL

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Courses » Aircraft Dynamic Stability & Design of Stability Augmentation System

Announcements **Course** Ask a Question Progress

Unit 3 - Week 2



Course outline

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Week 1

Week 2

- Lecture 7
Aircraft Rigid Body Equation of Motion
- Lecture 8 Six Degree of Freedom Equations of Motion
- Lecture 9
Vector in Rotating Frame
- Lecture 10
Forces and Moments on Aircraft
- Lecture 11 Euler Angles
- Lecture 12
Trajectory of the Aircraft
- Quiz :
Assessment 2
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Assignment 2

Week 3

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Assessment 2

The due date for submitting this assignment has passed. **Due on 2016-08-05, 23:59 IST**
As per our records you have not submitted this assignment.

1) The aerodynamic forces acting on the aircraft depends on 1 point

- Relative Ground Speed
- Wind Speed
- Relative Airspeed
- None of the Above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Relative Airspeed

2) For an Aircraft to be statically stable the value of ζ should be 1 point

- Positive
- Negative
- Zero
- None of the Above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Negative

3) A particle whose mass is 3.0 kg moves in the xy plane with velocity 2 points

along the line $y = 5.3$ m. Find the angular momentum about the origin when the particle is at (12 m, 5.3 m).

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No, the answer is incorrect.

Score: 0

Accepted Answers:

4) A force F is applied to the particle. Find the torque about the origin due to this force as the particle passes through the point (12 m, 5.3 m). 2 points

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No, the answer is incorrect.

Score: 0

Accepted Answers:

5) A arbitrary vector A in rotating body frame (B) having angular velocity ω can be represented in inertial frame (I) by 2 points

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No, the answer is incorrect.

Score: 0

Accepted Answers:

6) The gravitational force components along the x , y and z axes respectively can be written as 2 points

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No, the answer is incorrect.

Score: 0

Accepted Answers:



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