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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 4 - Week 3

Course outline

How to access the portal

Week 1

Week 2

Week 3

Lecture 13
Small Perturbation Theory

Lecture 14
Perturbed Aerodynamic Forces and Moments

Lecture 15 U - derivatives

Lecture 16
Alpha - derivatives

Lecture 17
Alpha Dot Derivatives

Lecture 18 q and delta Derivatives

Quiz : Assignment 3

Solutions for Assignment 3

Week 4

Week 5

Week 6

Week 7

Week 8

Assignment 3

The due date for submitting this assignment has passed. **Due on 2016-08-09, 23:59 IST**
As per our records you have not submitted this assignment.

1) A rotation of ψ radians about the x axis ($R_x(\psi)$) is defined as

2 points

-
-
-
-

No, the answer is incorrect.

Score: 0

Accepted Answers:

2) From the above ques what is the value of $R_x(\psi) \cdot R_x^T(\psi)$, where $R_x^T(\psi)$ is transpose matrix

2 points

- Null Matrix
- Identity Matrix
- Zero Matrix
- Random Matrix

No, the answer is incorrect.

Score: 0

Accepted Answers:

Identity Matrix

3) For the rotational matrix (R) given below what is the value of ψ

2 points

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-
-
-

No, the answer is incorrect.

Score: 0

Accepted Answers:

4) For the rotational matrix (R) given below what is the value of θ

2 points

-

-
-
-

No, the answer is incorrect.

Score: 0

Accepted Answers:

5) For the rotational matrix (R) given below what is the value of ϕ

2 poi

-
-
-
-

No, the answer is incorrect.

Score: 0

Accepted Answers:



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