Assignment 09

Due on 2019-10-02, 23:59 IST.

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) Transformation sequence used for body fixed reference frame to inertial reference frame, to derive 6 DOF equations of motions is?

- 3-2-1
- 3-2-3
- 3-1-2
- None of the above

No, the answer is incorrect.
Score: 0

2) Rotation matrix for wind axes system to body axes transformation is?

No, the answer is incorrect.
Score: 0

3) For general trim flight, which condition is true for Euler rate ($\dot{\phi}, \dot{\theta}, \dot{\psi}$)?

- $\phi = 0$, $\theta = 0$ and $\psi = 0$
- $\phi = 0$, $\theta = 0$ and $\psi \neq 0$
- $\phi = 0$, $\theta \neq 0$ and $\psi = 0$
- $\phi = 0$, $\theta \neq 0$ and $\psi \neq 0$

No, the answer is incorrect.
Score: 0

4) During process of determining Euler angles, the rotation about the z axis ($R_z(\alpha)$) is defined as

$$ R_z(\alpha) = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos \alpha & -\sin \alpha \\ 0 & \sin \alpha & \cos \alpha \end{pmatrix} $$

No, the answer is incorrect.
Score: 0

5) From the above case what is the value of $R_z(\alpha)$ $E(y)$, where $E(y)$ is the transpose matrix

- Null Matrix
- Identity matrix
- Zero Matrix
- Some Random Matrix

No, the answer is incorrect.
Score: 0

Accepted Answers:
- Identity matrix