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and better
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Flight dynamics
is the science
of air vehicle
orientation and

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Control in three dimensions. The three critical flight dynamics parameters are the angles of rotation in three dimensions about the vehicle's center of gravity (cg), known as pitch, roll and yaw.

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yaw.

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$-0.5015 \quad 0.0000$

$0.0 \quad 0 \quad 0.0 \quad 1.0 /$

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$- \quad 5746 \quad 0.0000$

The state vector

X is given by

Where: $u =$

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forward velocity

α = angle of

attack \dot{q} = rate

of pitch angle q

= pitch angle

$U(t)$ - input

function which

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