

Homework 3

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Adapted from Tveit, et al. (2002), Nonlinear systems (Vol. 1), Oxford University Press/Blackwell

Problem Statement

Consider equations that in undrillrigged coordinates can be given by

$$J_1 \dot{q}_1 = (J_1 - J_2 \sin q_2) \dot{q}_2 + w_{11},$$

$$J_2 \dot{q}_2 = (J_2 - J_3 \sin q_3) \dot{q}_3 + w_{21},$$

$$J_3 \dot{q}_3 = (J_3 - J_4 \sin q_4) \dot{q}_4 + w_{31},$$

where q_1, q_2 and q_3 are the components of the angular velocity vector $\omega \in \mathbb{R}^3$ along the principal axes. Inputs w_1, w_2 and w_3 are the torque inputs applied about the principal axes and J_1, J_2 and J_3 are the principal mass moments of inertia.

Our differential equations of motion are simplified through application of Euler's so-called law of conservation of the principle axes. Accordingly, we have

$$\sum_{i=1}^3 \omega_i = J \omega = w \in J \omega,$$

where $\sum_{i=1}^3 \omega_i \in \mathbb{R}^3$ is the summation of all the components applied to the system and $J \in \mathbb{R}^{3 \times 3}$ is the inertia matrix. Suppose we assume the body fixed coordinate system aligned with the principal axes, that is

$$J = \begin{bmatrix} J_1 & 0 & 0 \\ 0 & J_2 & 0 \\ 0 & 0 & J_3 \end{bmatrix}.$$

It is also possible to write the vector product $\omega \times J \omega$ as a matrix equation

$$\omega \times J \omega = [\omega]_\times (J \omega),$$

Answers For 11 3 Punchline

Ken Kinoshita

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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