

Torque caused by motor thrust

\vec{M_3} \:=\.&\frac{L}{\sqrt{2}}\begin{pmatrix}-1 \\ -1 \\ 0\end{pmatrix}\\times \begin{pmatrix}0 \\ 0 \\ 1\end{pmatrix}\\left(\frac{-mq}) $C_T \wedge n_h D^4 \left(n_3-n_h \right) \right) \wedge (n_3-n_h right) \wedge (n_4) = 0.$ 0\end{pmatrix} + \begin{pmatrix}1 \\ -1 \\ 0\end{pmatrix} + \begin{pmatrix} + \begin{pmatrix} + \begin{pmatrix} -1 \\ 1 \\ 0\end{pmatrix} -1 \\ 0\end{pma $D^4 \left(\frac{1}{n_1} - \frac{1}{n_2} - \frac{1}{n_3} - \frac{1}{n_4} \right) - \frac{1}{n_2} - \frac{1}{n_3} - \frac{1}{n_4} + \frac{1}{n_4} - \frac{1}{n$ & 0 \\ 0 & |_{yy}^{-1} & 0 \\ 0 & 0 & |_{xx}^{-1} \end{pmatrix} 4\sqrt{2} L C_T \rho n_h D^4 \begin{pmatrix} n_x \\ n_y \\ 0 \end{pmatrix} \\ \end{split} \begin{align} k_3^x \\triangleg\\& \frac{4\sqrt{2} L C_T \rho n_h D^4} {_{xx}} \\ k_3^v \\\triangleg\\& \frac{4\sqrt{2} L C_T \rho n_h D^4} {_{xx}} \\ k_3^v \\\\ $n_h D^4 \{I_{yy}\} \end{align}$

Torque caused by ???

 $\ensuremath{\mbox{begin{align} k_3^z \;\triangleg\;\& \frac{4 C_P \rho n_h D^5} {\pi l_{zz}} \ensuremath{\mbox{align}} }$

Torque caused by inertia of the motors and propellers

Complete			
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