Linearized Models

$$\begin{array}{lll} \Delta \dot{p} \approx \frac{R}{I_{x}} \left( \Delta f_{z} + \Delta f_{z} - \Delta f_{z} - \Delta f_{z} \right) & R = \frac{d}{f_{z}} \\ \Delta \dot{q} \approx \frac{R}{I_{y}} \left( \Delta f_{z} + \Delta f_{z} - \Delta f_{z} - \Delta f_{z} \right) \\ \Delta \dot{r} \approx \frac{h}{I_{z}} \left( \Delta f_{z} + \Delta f_{z} - \Delta f_{z} - \Delta f_{z} \right) \end{array}$$

$$\Delta \dot{w}^{\xi} = -g\Delta \Phi$$

$$\Delta \dot{w}^{\xi} \approx g\Delta \Phi$$

$$\Delta \dot{w}^{\xi} \approx \frac{1}{m} \left( -\Delta f_{1} - \Delta f_{2} - \Delta f_{3} - \Delta f_{4} \right)$$

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