$$\begin{array}{c}
\overrightarrow{W}_{z} = \begin{array}{c} \overrightarrow{W}_{z} \mid \sum S \cos S \cdot V_{x} + \frac{CW}{J} \mid (1-(\cos S) \cdot V_{y} - \frac{L^{2}}{2} \left(\frac{1}{L} \frac{CW}{J} (1+\cos S) + \frac{CW}{J} \right) W_{z} \\
+ \frac{R_{w}L}{2Y_{y}} \mid CW \mid S \sin S \cdot W_{m}
\end{array}$$

$$\begin{array}{c}
\overrightarrow{V}_{x} = -\left(\frac{CW}{m} + \frac{R_{w}}{m} S \sin S \right) V_{x} + \frac{CW}{m} \sin S \cdot V_{y} + \frac{1}{2} \frac{CW}{m} \sin S \cdot W_{z} + W_{z} V_{y}
\end{array}$$

$$\begin{array}{c}
\overrightarrow{V}_{x} = -\left(\frac{CW}{m} + \frac{R_{w}}{m} S \sin S \right) V_{x} + \frac{CW}{m} \sin S \cdot V_{y} + \frac{1}{2} \frac{CW}{m} \sin S \cdot W_{z} + W_{z} V_{y}
\end{array}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{y}}{M} S \cos S V_{x} - \frac{CW}{m} (1+\cos S) V_{y} + \frac{1}{2} \frac{CW}{m} (1-\cos S) - 2 \frac{CW}{m} W_{z} - W_{z} V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{CW}{m} (1+\cos S) V_{y} + \frac{1}{2} \frac{CW}{m} (1-\cos S) - 2 \frac{CW}{m} W_{z} - W_{z} V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} (1+\cos S) V_{y} + \frac{1}{2} \frac{CW}{m} (1-\cos S) - 2 \frac{G_{w}}{m} W_{z} - W_{z} V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} (1+\cos S) V_{y} + \frac{1}{2} \frac{G_{w}}{m} (1-\cos S) - 2 \frac{G_{w}}{m} W_{z} - W_{z} V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} (1+\cos S) V_{y} + \frac{1}{2} \frac{G_{w}}{m} (1-\cos S) - 2 \frac{G_{w}}{m} W_{z} - W_{z} V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} (1+\cos S) V_{y} + \frac{1}{2} \frac{G_{w}}{m} (1-\cos S) - 2 \frac{G_{w}}{m} W_{z} - W_{z} V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} S \cos S V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} S \cos S V_{x}$$

$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x} - \frac{G_{w}}{M} S \cos S V_{x}$$

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$$\begin{array}{c}
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$$\begin{array}{c}
\overrightarrow{V}_{y} = \frac{G_{w}}{M} S \cos S V_{x}$$

$$\begin{array}{c}
\overrightarrow$$

Ds = 696.47

 $\theta_6 = 370.3704$

= 12985

O3 = 191.17

J = 22,1185

Jest = 5.6247 C-6 (trom 01)

5.3088 @ -6 (from 02)

 $W_{m} = \left[-\frac{1}{J_{eff}} \left(\frac{k'}{R} + b \right) \right] W_{m} + \left[\frac{k V_{m}}{J_{eff} R} \right] \propto$