

Nijod Albasov 20230929 HK#1 AE 450

Problem 3.

$$\begin{bmatrix} \dot{u} \\ \dot{v} \\ \dot{x} \end{bmatrix} = \begin{bmatrix} \delta \theta, x \\ \delta \theta, y \end{bmatrix} \cdot \frac{1}{m} - \begin{bmatrix} 0 & -7 & 2 \\ 7 & 0 & -p \\ -2 & p & 0 \end{bmatrix} \begin{bmatrix} u \\ v \\ w \end{bmatrix}$$

$$\begin{bmatrix}
\delta_{\theta,x} \\
\delta_{0,y} \\
\delta_{\theta,z}
\end{bmatrix} = m \begin{bmatrix}
\dot{u} \\
\dot{v} \\
\dot{u}
\end{bmatrix} + m \begin{bmatrix}
0 - 7 & q \\
7 & 0 - p \\
- 9 & p
\end{bmatrix} \begin{bmatrix}
u \\
v \\
u
\end{bmatrix}$$

$$\delta_{\theta,x} = m \dot{u} + m(2u - 2v)$$

$$\delta_{\theta,y} = m \dot{v} + m(uz - px)$$

$$\delta_{\theta,z} = m \dot{u} + m(vp - qu)$$

Nijat Abbosov 20230929.

Problem 3

$$\frac{2}{2} = \frac{2}{(\tan \beta)^2} \left(\frac{1}{(\tan \beta)^2} + \frac{2}{(\tan \beta)^2} \right)$$

$$\dot{z} = \frac{1}{u^2 + u^2} (\dot{u} u - \dot{u} u) = \frac{(\tan \beta)^2}{V^2} (\dot{u} V \cos z \cos \beta - \dot{u} V \sin z \cos \beta) =$$

$$(\tan \beta)^2 = \frac{v^2}{u^2 + u^2} = \frac{3h \beta^2}{\sqrt{2} \sinh \beta^2} \left(\frac{v}{v} \sqrt{\frac{\cos \lambda}{\cos \beta}} - \frac{v}{u} \sqrt{\frac{\sinh \lambda}{\cos \beta}} \right) =$$

$$= \frac{1}{V} \left(\mathring{v} \frac{\cos \lambda}{\cos \beta} - \mathring{u} \frac{\sin \lambda}{\cos \beta} \right) = 2 \pi \frac{1}{V}$$

led's check.

Becourse.

$$\dot{a} = \frac{1}{V} \left(\dot{u} \left(\frac{\cos \lambda}{\cos \beta} \right) - \ddot{u} \left(\frac{\sin \lambda}{\cos \beta} \right) = \sqrt{\frac{1}{V} \left(\ddot{u} \frac{\cos \lambda}{\cos \beta} - \ddot{u} \frac{\sin \lambda}{\cos \beta} \right)} + \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} + \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right) \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp - gu \right)} = \sqrt{\frac{1}{V} \left(\frac{\cos \lambda}{\cos \beta} \left(vp -$$

$$q - (p\cos \angle + 2\pi i \angle) \tan \beta = \frac{1}{V} \left(\frac{m \angle}{\cos \beta} (qu - \tau v) \right) - \frac{1}{V} \left(\frac{\cos \omega}{\cos \beta} (vp - qu) \right)$$
let's weet $u, v, and \varrho$.

$$q - (p\cos\lambda + \gamma m)\sin\beta = (\sin\lambda(q)\sin\lambda(\alpha\beta - \gamma \sin\beta) - (\cos\lambda(p\sin\beta - q)\cos\lambda(\alpha\beta))$$

true !

20230929 Nigod Abl crow MUX #1. $\beta = \frac{\tan \beta \left(-u\dot{u} + \frac{u^2 + u^2}{V}\dot{v} - u\dot{u}\right)}{\sqrt{2}}$ AE 450 = : \frac{\sub(-\sub(\sigma) \frac{\varphi}{m\beta} \varphi - \sub(\sigma) \frac{\varphi}{m\beta} = -= T (-supcase i + cos B 1 - & wind sup pix). B° = prod - 7003 x + 1(-cosx wB i + cosBi - riv x su pii)-- 1 (ws 2 sup (qx - 2v)) + 1 cos B (uz-px) met 1 sundows (VP-qu) after dia Beame | j = 1 (-sh B ω μ ü + ω β ν - sh d sh β ι i) 39, trul! -cod whoge + show pqu=0.

Vpnd = sed ung.op- on spw.