

$$\mathcal{E} = \mathcal{E}_x + \mathcal{E}_y = R \cos d + R \sin d$$

Definisco
$$\bar{w} = \frac{dd}{dt} t_f df$$

$$= 0 \quad wdt = dd - 0 \quad \int wdt = \int dd df$$

$$= 0 \quad do$$

$$= D W(t_f - t_o) = d_f - d_o \qquad \text{pongo do} = t_o = \emptyset$$

$$= D (\lambda(t) = W \cdot t)$$

$$= \circ \quad \mathcal{E} = \hat{i} \, R \cos(\omega t) + \hat{j} \, R \sin(\omega t)$$

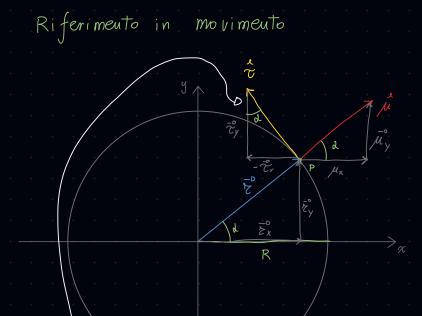
Siccome
$$\tilde{V} = \frac{d\tilde{S}}{dt} = D$$
 $\tilde{V} = \frac{d\tilde{z}}{dt} = -WR \sin(wt)\hat{z} + WR \cos(wt)\hat{J} = WR \left[\cos(wt)\hat{J} - \sin(wt)\hat{z}\right]$

$$\frac{\partial^{2} e}{\partial t} = -\omega^{2} R \cos(\omega t) \hat{c} - \omega^{2} R \sin(\omega t) \hat{j} = -\omega^{2} R \left[\cos(\omega t) \hat{i} + \sin(\omega t) \hat{j} \right]$$

$$= -\omega^{2} R \frac{\partial^{2} e}{\partial t} = -\omega^{2} R \frac{\partial^{2}$$

$$|\vec{v}| = \sqrt{\omega^2 R^2 \left[\cos^2(\omega t) + \sin^2(\omega t)\right]} = \sqrt{\omega^2 R^2} = (\omega R) |\vec{v}| - \sigma \quad V = \omega R = \sigma \quad \omega = \frac{V}{R}$$

$$|\vec{\theta}| = \sqrt{\omega^4 R^2 \left[\dots\right]} = \omega^2 R \quad \text{mon} \qquad \sigma = \omega^2 R = \frac{V^2}{R^2} R = \left(\frac{V^2}{R}\right) |\vec{\theta}|$$



$$\begin{aligned}
\hat{u} &= \hat{i} \cos \alpha + \hat{j} \sin \alpha \\
\hat{\tau} &= -\hat{i} \sin \alpha + \hat{j} \cos \alpha \\
w &= \frac{d\lambda}{dt} = 0 \quad \Delta(t) = wt \\
&= 0 \quad \begin{cases}
\frac{d\mu}{dt} &= -\hat{i} w \sin(wt) + w \hat{j} \cos(wt) \\
\frac{d\hat{\tau}}{dt} &= -w\hat{i} \cos(wt) - w \hat{j} \sin(wt)
\end{cases}$$

$$= 0 \quad \hat{\mu} &= w \left[\hat{j} \cos(\lambda) - \hat{i} \sin(\lambda) \right] = w \hat{\tau}$$

$$\hat{\tau} &= -w \left[\hat{i} \cos(\lambda) + \hat{j} \sin(\lambda) \right] = -w \hat{\mu}$$

$$=0$$

$$180-90-d=90-d$$

$$90 = 0 90+90-d=180-d$$

$$180-180+d=d$$

$$\mathcal{E} = iR \cos \lambda + R \int \sin \lambda = R \left[i \cos \lambda + j \sin \lambda \right]$$

$$= \left[R \mu \right]$$

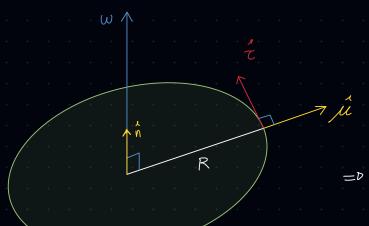
$$= 0 \frac{d\tilde{z}}{dt} = (R \omega \tilde{z})^{-\frac{1}{2}}$$

$$\frac{d\vec{v}}{dt} = RW \left[-w\dot{\mu}\right] = -Rw\dot{\mu}$$
 Acc cp

Se
$$w \neq \cos t = 0$$
 $\frac{d\vec{v}}{dt} = R$ $\frac{dw\hat{\tau}}{dt} = R \left[\frac{\dot{w}\hat{\tau} + w\hat{\tau}}{\ddot{a}_{cp}} \right]$

$$-Rw^2 \dot{\mu}$$

Se $\mu / \hat{\tau} = 0$ l'unico modo per ottenere $\hat{\tau}$ e con il prodotto vect Tra \hat{n} e μ



$$=D \mathcal{U} = \mathcal{W} \wedge \mathcal{U} = \mathcal{W} \cdot \mathcal{U} \cdot Sin(90) =$$

$$= \mathcal{W} \left[\text{Regola Mano} \, \mathbb{D} \times \right] = \mathcal{W} \hat{\mathcal{C}}$$

$$= \mathcal{U} \left[\mathcal{C} \times \mathcal{C}$$

$$\frac{d\hat{\mu}}{dt} = w \wedge \hat{\mu} \qquad \forall \hat{\mu} \quad \forall \text{VERSORE}$$