KRUZNO GIBANJE

branne putanja polarnjera (P) Voktor sakreta |ΔΦ = Δ Q F[+4+ smyler = pranilo demo [t] (Vcktor) kutne braine W=lim At = do F=W×F Brzina: v=|v|=|w||r|-smy

(granny sig 0)

Akceleracija:
$$\vec{a} = \frac{d\vec{v}}{dt} = \frac{d}{dt}(\vec{w} \times \vec{r}) = \frac{d\vec{w}}{dt}\vec{r}$$

Kutha akcel racy'a:

in wir aco

$$\widehat{r}[t] = R(\cos\varphi(t) \hat{\vec{x}} + \sin\varphi(t) \hat{\vec{y}})$$

$$\widehat{\omega}(t) = \frac{d}{dt} \varphi(t) \hat{\vec{z}} = \hat{\varphi}(t) \hat{\vec{z}}$$

$$\vec{V}[t] = \frac{d}{dt} \vec{v}[t] = R\left(-\sin\varphi(t) \dot{\varphi}(t) \dot{\vec{x}} + \cos\varphi(t) \dot{\varphi}(t) \dot{\vec{y}}\right)$$

$$= R\dot{\varphi}[t] \left(-\sin\varphi(t) \dot{\vec{x}} + \cos[t] \dot{\vec{y}}\right)$$

$$\overrightarrow{V}[t] = \overrightarrow{W}(t) \times \overrightarrow{v}[t] =$$

$$= \overrightarrow{\phi}[t] \cdot \overrightarrow{\hat{z}} \times \overrightarrow{R}(\cos \varphi[t] \times + \sin \varphi[t] \cdot \overrightarrow{\hat{y}})$$

$$= \overrightarrow{\phi}[t] \cdot \overrightarrow{\hat{z}} \times \overrightarrow{R}(\cos \varphi[t] \times + \sin \varphi[t] \cdot \overrightarrow{\hat{y}})$$

$$\frac{\partial}{\partial y} = \frac{\partial}{\partial z} \left(-\dot{\varphi}[t] \cdot R\sin\varphi \right) - \frac{\partial}{\partial y} \left(-\dot{\varphi}[t] R\cos\varphi \right)$$
(8) River

galilejeve transformacje:

Le relación koje poreouju veletore položaja, brižne i akceleración destrice u dua referentma obriva koji se metusobno gibaju

stalnom strinom

right derrive region of the first of the fir F(r) = F + F'(+) / d+

a[1] = a'(+)

Kako pilot iz A gleda u gibanje aviona 8? Sustair vessur 2a aurion 1.

V = V1 (jor 1 na toj načim u sust.

mirryje) で用ってもでい 70 = 7 + Vo

VB= VA + VB gibanje dviona B u refer sustavni u kojem je H u centru (tziero gibanji aniona B pilot anione A vidi no radani)

To = (Pg [0] + Vg +) - V4 +

To = To - VA. t

VB - VB - VA

13 = 16 [0] + (VB-VA)6

