Teopenn S yn, kor ba glantenne a o glantenn y moce cucremo

Kor. bo glureme (unnyrec) cucreno

$$O = \sum_{v}^{k=1} m^{k} \mathcal{I}^{k}$$

Genzip mace ancienta

$$\vec{C} = \frac{\sum_{k=1}^{N} w_k \vec{v}_k}{\sum_{k=1}^{N} w_k}, \quad M = \frac{\sum_{k=1}^{N} w_k}{\sum_{k=1}^{N} w_k} \cdot M \vec{v}_c = \frac{\sum_{k=1}^{N} w_k \vec{v}_k}{\sum_{k=1}^{N} w_k \vec{v}_k} = \vec{Q}$$

$$\tau \cdot P_{\kappa} : \omega_{\kappa} \overrightarrow{\omega}_{\kappa} = \overrightarrow{F}_{\kappa} = \overrightarrow{F}_{\kappa}^{\epsilon} + \overrightarrow{F}_{\kappa}^{i}$$

$$\frac{dQ}{dt} = \frac{dt}{dt} \sum_{k=1}^{k=1} m^k Q^k = \sum_{k=1}^{k=1} L^k = L = L^c - \text{ Leaphong lexally}$$

Teopena of nymeneum kon ba glumenum 
$$\frac{dQ}{dt} = F^e$$

Teopena o gluneum yentpa Macc

Useur proce glour. Kox maréprantique Torka, le kot. cochegot. Mocca been cucremon, nog generobrem cum, poluen m. Bek. beex cun cucremon

Creptibue

Teopena Sugrevenu kun noneura marenn

Kunez. Moneur oru. T. A:

$$\vec{K}_A = \frac{\lambda}{\kappa_{e}} \vec{S}_{\kappa} \times m_{\kappa} \vec{S}_{\kappa}$$
,  $\vec{S}_{\kappa} = \vec{A} \vec{P}_{\kappa} - cynna bcex naneurob unusyneco otu. A.$ 

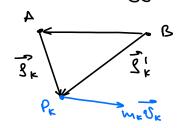
Kem. Mopleut OTUDE. Den

Kun. moneur tena, blow. oruce. ocu:

$$K^{n} = \sum_{k=1}^{k-1} m^{k} \Omega^{k} q^{k} = \sum_{k=1}^{k-1} m^{k} \Omega^{k}_{s} = \sum_{k=1}^{k-1} m^{k} q^{k}_{s}$$

rem. moneur zabucur er bertopa yeurfo

Chays neurgy Kan KB

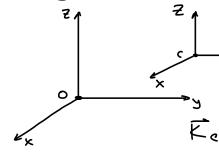


$$\overrightarrow{K}_{B} = \underset{\xi=1}{\overset{N}{\sim}} S_{k}^{1} \times m_{\xi} \overrightarrow{v}_{k}, \quad \overrightarrow{K}_{A} = \underset{\xi=1}{\overset{N}{\sim}} \overline{S}_{k}^{2} \times m_{\xi} \overrightarrow{v}_{k}, \quad S_{k} = \overrightarrow{B} \overrightarrow{A} + \overrightarrow{S}_{k}$$

$$\overrightarrow{K}_{B} = \underset{\xi=1}{\overset{N}{\sim}} S_{k}^{1} \times m_{\xi} \overrightarrow{v}_{k} + \overrightarrow{B} \overrightarrow{A} \times \underset{\xi=1}{\overset{N}{\sim}} m_{\xi} \overrightarrow{v}_{k} = \overrightarrow{K}_{A} + \overrightarrow{B} \overrightarrow{A} \times \overrightarrow{Q}$$

B racruscru, que yenifa noce: Ko=Kc+Oc×MVc

Blegen Kennoly c.r. (varano b 7.C, oct glown. nocr.)



Dog glunemen souce. verifice Noce Sygen

S Noumaro gluneme & Könnobor C.K.

$$\vec{\nabla}_{k} = \vec{\nabla}_{kc} + \vec{\nabla}_{kr} = \vec{\nabla}_{c} + \vec{\nabla}_{kr}$$

$$\vec{\nabla}_{c} = \sum_{k=1}^{N} \vec{\mathcal{O}}_{k} \times \mathbf{M}_{k} \vec{\nabla}_{k} = \left(\sum_{k=1}^{N} \mathbf{M}_{k} \times \mathcal{O}_{k}\right) \cdot \vec{\nabla}_{c} + \sum_{k=1}^{N} \vec{\mathcal{O}}_{k} \times \mathbf{M}_{k} \vec{\nabla}_{kr}$$

$$\vec{\nabla}_{cc}$$

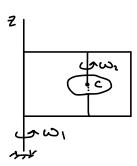
T.O. Ke=Kc, : Ko=Oc×MVe+Ke, - respons l'émis o run nomense

Kemez nonem cucientes oruce. Houzh yent for exnagerbaetas uz nonema uningueca mazitoria M  $B_{\tau}$ , y mace charens other. games yenther a kun moment ancient other. y mace ( $\tau$ .e. B Kennobox c.k.)

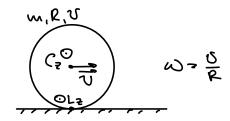
1 Junepor!



 $K_{oz} = J_{oz} \cdot \omega = \frac{1}{2} m R^2 \omega$ 



$$K_z = \omega_1 \Omega^2 + \frac{1}{2} \omega R^2 (\omega_1 + \omega_2)$$



 $K_{c_2} = \frac{1}{2} \text{MUR}$   $K_{c_2} = K_{c_7} + \text{MUR} = \frac{5}{2} \text{MUR}$ 

## leopena Suzuenemun kunez nomenza

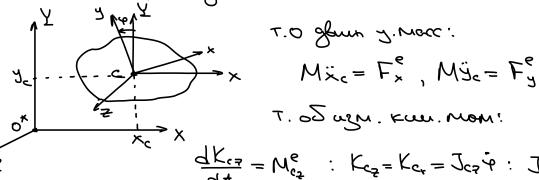
Bracerocau:

1. A venoglamen: 
$$V_A = 0$$
:  $\frac{dK_A}{dA} = \overrightarrow{M_A}^e$ 

## Дифференциальние ур. я вр. я тт оток, неподв. оси

I Braneure
$$\frac{dKu}{dA} = M_u^e, \quad K_M = J_M \omega = J_M \dot{\dot{\gamma}} \quad : \quad J_M \dot{\dot{\gamma}} = M_u^e (\dot{\gamma}, \dot{\dot{\gamma}}, \dot{t})$$

II. Proces - rapan. gour.



$$\frac{dK_{c7}}{dt} = M_{c2}^{c2} : K_{c7} = K_{c4} = J_{c7}\dot{q} : J_{c7}\dot{q} = M_{c7}^{c2}$$

## leopena & ugn. xum. susprum

$$\overrightarrow{U}_{k} = \overrightarrow{U}_{o} + \overrightarrow{V}_{E_{i}}$$

$$T = \frac{1}{2} \sum_{i} w_{i} (\overrightarrow{U}_{o} + \overrightarrow{U}_{E_{i}})^{2}$$

$$T = \frac{1}{2} (\sum_{i} w_{i}) \overrightarrow{U}_{o}^{2} + (\sum_{i} w_{i} \overrightarrow{U}_{e_{i}}) \cdot \overrightarrow{U}_{o} + \frac{1}{2} \sum_{i} w_{i} \cdot \overrightarrow{U}_{E_{i}}^{2}$$

$$X \qquad T = \frac{1}{2} M \overrightarrow{U}_{o}^{2} + M (\overrightarrow{U}_{o}, \overrightarrow{U}_{c_{i}}) + T_{r}$$

β socruecia, τedpena Keunsa que και.  $εα: T = \frac{1}{2}MV_c^2 + T_c$ 

Aprimpolia anavorirna ero 7.0 km. moneure:

Kennet. Moneut cucients othor. Apouzb. yeur for exnogerbastal uz moneura unnymber mat.  $torich M B_{\tau}$ , y. mace cucremes othor. gameso yeur for u kun. moneur cucremes othor. y. mace ( $\tau$ .e. & Kennedoù c.k.)

$$T = \frac{1}{2} \underset{E=1}{\overset{\sim}{\sim}} w_{E} \overrightarrow{U}_{E}^{2} : dT = \underset{E=1}{\overset{\sim}{\sim}} w_{E} \overrightarrow{U}_{E} \cdot d\overrightarrow{U}_{E}, \quad \overrightarrow{U}_{K} = \overrightarrow{U}_{E}(+) : dT = \underset{E=1}{\overset{\sim}{\sim}} w_{E} \overrightarrow{U}_{E} \cdot \overrightarrow{U}_{K}$$

$$dT = \underset{E=1}{\overset{\sim}{\sim}} (w_{E} \overrightarrow{W}_{K}) \cdot (\overrightarrow{V}_{K} dA) = \underset{E=1}{\overset{\sim}{\sim}} F_{K} \cdot d\overrightarrow{W}_{K} = \underset{E=1}{\overset{\sim}{\sim}} \delta A_{K} = \underset{E=1}{\overset{\sim}{\sim}} \delta A_{E}^{2} + \underset{E=1}{\overset{\sim}{\sim}} \delta A_{E}^{2}$$

$$dT = \delta A^{2} + \delta A^{1} - TUK \Rightarrow \delta u u \cdot \theta d p u e$$

$$\Delta T = A^{2} + A^{1} - TUK \Rightarrow \delta u u \cdot \theta d p u e$$