Frenitorione 12-

Benisono di Statica potensiale

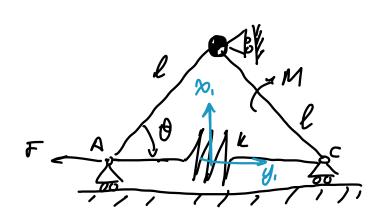
$$h = \frac{l}{2} \sin \theta$$

$$y = l \sin \theta$$

$$\Delta l = l - l_v = L - L \cos \theta$$

Principalmente à viene chiesto il PLV quinoli ci concentriano su quello.

Eserciono 1,3 TolE (1/9/18



Paki fo,=0

M,F

Trovare Beg

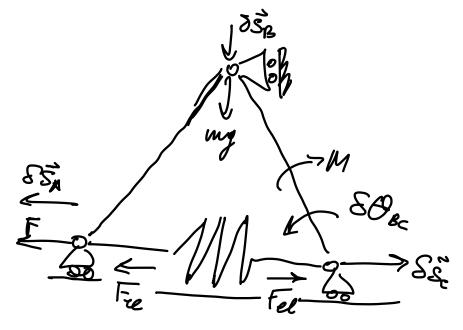
degami Cinematici

$$\Delta \ell^{2} = \ell_{0} - \ell^{2} = 2\ell \cos \theta - 2\ell \cos \theta = 2\ell - 2\ell \cos \theta$$

$$\vec{S}_{c} = \ell \cos \theta \left(\hat{x} \right)$$

$$8\vec{s_0} = \frac{\partial |\vec{s_0}|}{\partial \theta} 8\theta = lcos \theta 8\theta (-\hat{j})$$

$$8\vec{\theta_{gc}} = \frac{\partial |\theta_{gc}|}{\partial \theta} 8\theta = f \theta (\hat{k})$$

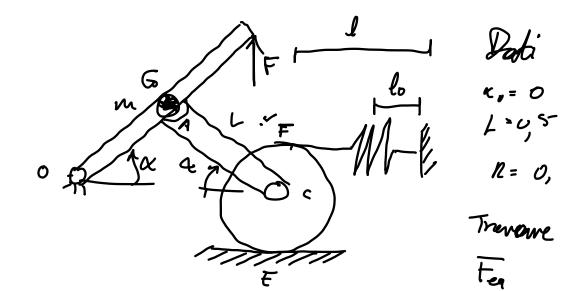


 $F_{p} \qquad SS_{g}$ $M(-\tilde{k}) \cdot 80(+\tilde{k}) + F(-\hat{i}) \cdot l\sin\theta(-\hat{i}) \cdot 80 + k(2l\cdot 2l\cos\theta)(\hat{i})$ $\cdot 80 \cdot l\sin\theta(-\hat{i})$ $\cdot ce_{n} \qquad + k(2l\cdot 2l\cos\theta)(\hat{i}) \cdot l\sin\theta(\hat{i}) \cdot 80 = 0$ $\approx long_{e}$ clarkia $solven_{e}$ ce_{a} ce_{a} ce_{a} ce_{a} ce_{a} ce_{a} ce_{a} ce_{a}

mghcor 0 50 - MSO + Flein 050 + k (2l-2lcord) lsin 80 + k (2l-2lcord) lsin 80 = 0

=> Ricaro Ou

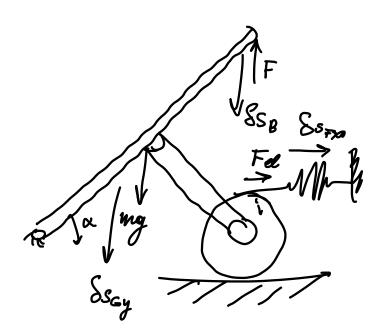
Eseriaio e. 5 TelE 5/7/2023



$$\hat{\theta}_{DISCO} = \frac{|\vec{s}_c|}{R} (-\vec{k}) = \frac{2L\cos\alpha}{R} (-\hat{k})$$

$$\vec{S}_{F} = \left| \vec{\Theta}_{DISCO} \left[2R(\hat{x}) - 4L\cos\alpha(\hat{x}) \right] \right|$$

=41-41 cora



6) Applico PLV SC-0

 $ug(-\hat{j})$. Lcor $\kappa \delta a + F(-\hat{j})$. $2Lcor \kappa \delta \alpha (-\hat{j}) + k(4L-4lcor \kappa)(\hat{i}) \cdot 4Lsin \theta \delta \alpha$ $(\hat{i}) = 0$

ng Loosa 84 - F. 21 cora 8a + n (41-42000). 41 sin 8 Sa = 0

La Ricaro F (aeq)

Esercisio 13 11/9/18



www.

Epm= MD

Epm= mgh = mg Lsin D

Epm- mglsin D

Ep. = ½ h Δl² - ½ h (2L-2Lcor Θ)²

Δl=2L-2Lcor Θ

Ep, = FLCOOD

Ep,τοι = -M0 + nylsinds à k(21-2Lcorθ) + Fleosb

M per θeg